



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash • Eureka, CA 95501-2138 • 707-441-8855 • Fax 707-441-8877 • info@shn-eureka.com

Reference: 001133.207

July 7, 2006

Ms. Kasey Ashley
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, CA 95403-1072

Subject: Site Investigation Report of Findings, Granite Construction Ukiah Hot Plant, Ukiah, California; Case No. 1NMC545

Dear Ms. Ashley:

Here is the site investigation report of findings for the Granite Construction Company (Granite) Ukiah Hot Plant (site), Mendocino County, California. This report includes a brief discussion on the background of the site, vicinity information, and a description of the work. This report was prepared by SHN Consulting Engineers & Geologists, Inc. (SHN) on behalf of Granite, as requested by the California Regional Water Quality Control Board, North Coast Region (RWQCB), in a letter dated February 24, 2006.

Introduction

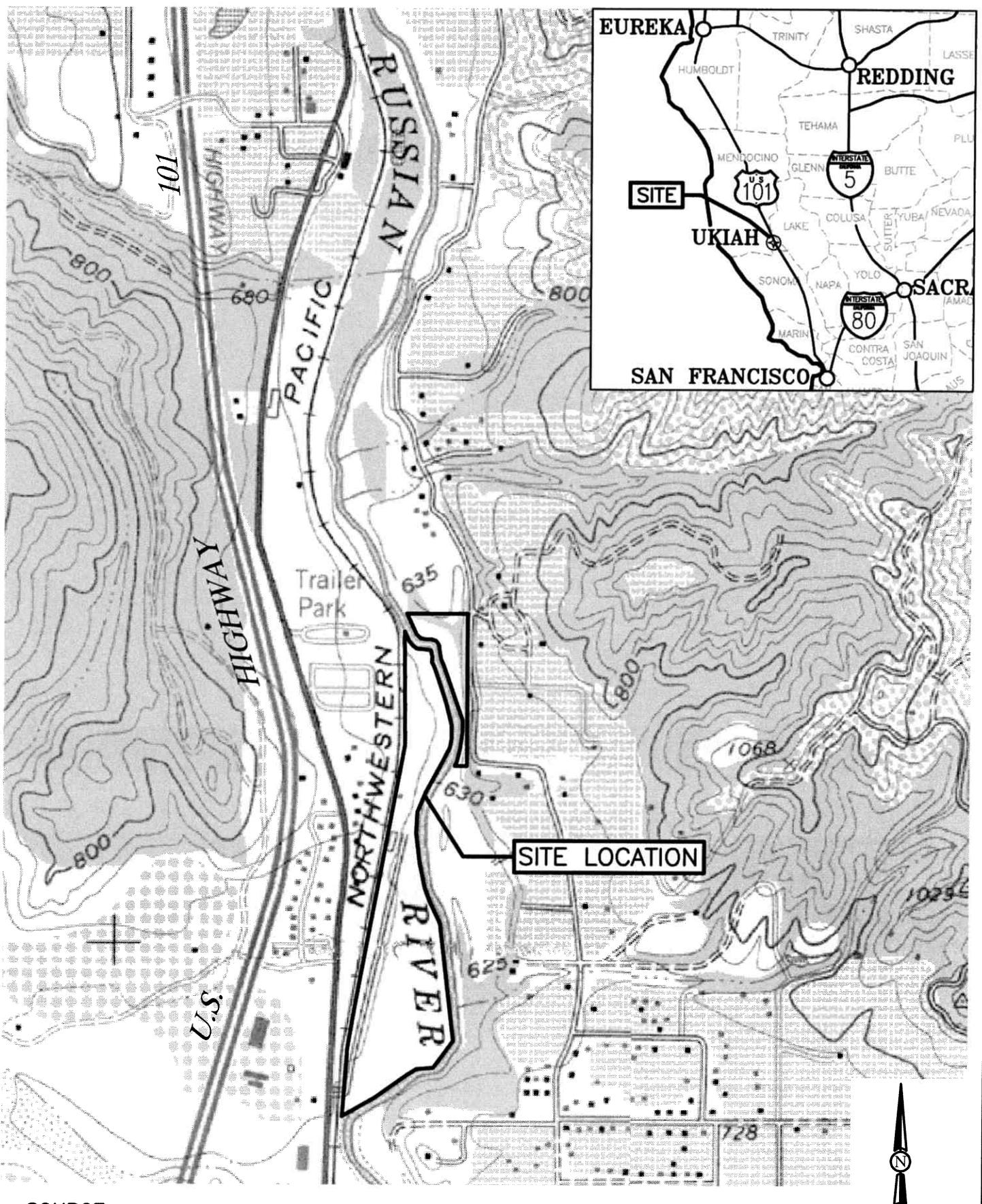
Vicinity Information

The Ukiah Hot Plant is located approximately 2 miles north of Ukiah, between the Russian River and State Highway 101 (Figure 1). The overall subject property encompasses in excess of 40 acres, of which the 4 southern parcels (Assessor Parcel Numbers [APNs] 167-260-05, 167-230-15 & 16, 167-190-24) are occupied by the asphalt batch and gravel processing plants, gravel stockpiles, and other support facilities (referred to in general as the "batch plant site"). The remaining 2 parcels (APNs 168-120-01 & -04) consist of approximately 3.8 acres of gravel bar and stream channel, located on the east side of the Russian River near the north end of the batch plant site.

The site is bound to the north, east, and south by the Russian River, and to the west by commercial/residential development located along North State Street. The elevation of the site is approximately 640 feet above Mean Sea Level (MSL).

Background

Granite is the current owner and operator of the facility, having purchased the facility from Parnum Paving. Prior to Parnum, several different owners/operators have been at the facility over the past 40 years. The facility consists of sand and gravel aggregate operations, an asphalt drum-mix plant (hot plant), an equipment yard, and a maintenance shop. Facility operations include the stockpiling of gravel and rock material, crushing, washing, and sorting of the sand and aggregate used for general roadway construction, and for the incorporation of processed aggregate into asphalt concrete. The operations also include the fueling, maintenance, and storage of equipment used to transport and use the paving materials, as needed.



SOURCE:
UKIAH USGS 7.5 MINUTE QUADRANGLE

1"=1000'±

SW Consulting Engineers & Geologists, Inc.	Granite Construction Ukiah Hot Plant Ukiah, California	Site Location Map SHN 001133.207
	January, 2005	001133.207-F1 Figure 1

Ms. Kasey Ashley

Site Investigation Report of Findings, May 2006, Granite Construction Ukiah Hot Plant

July 7, 2006

Page 2

On July 9 through 11, 2001, SHN supervised the installation of 28 soil borings and 50 test pits. Soil borings and test pit locations were selected by SHN or Granite and then cleared by NORCAL Geophysical to minimize damage to existing underground utilities. Soil borings were drilled using a truck mounted Geoprobe® rig operated by Fisch Environmental of Valley Springs, California. Borings were extended to a maximum depth of 23 feet Below Ground Surface (BGS). One hand-augered boring was advanced to 6 feet BGS behind the shop. Test pits were excavated using a backhoe or excavator and extended to a maximum depth of 11 feet BGS. Complete results of the investigation are presented in the report entitled *Environmental Site Assessment, Ukiah Hot Plant, Ukiah, California*. (SHN, 2003). Soil and groundwater analytical data from the investigation are included in Attachment 1.

On March 8 and 9, 2004, SHN supervised Weeks Drilling of Sebastopol, California in the installation of 3 groundwater-monitoring wells (MW-1 through MW-3) in the vicinity of the asphalt plant (SHN, 2004). In a letter dated February 16, 2006, the RWQCB concurred with SHN's assessment that no further monitoring or investigation is necessary in the vicinity of the asphalt plant.

Site plans are included as Figures 2, 3, and 4. Debris, gravel, and material piles have substantially changed since the site plans were created in July 2001, and the features shown on the site plans may not be representative of current conditions.

Geology

Geology in the vicinity of the site consists of Quaternary Alluvium underlain by Plio-Pleistocene age alluvial and lacustrine deposits locally known as the Ukiah Beds. The Ukiah Beds are composed of low permeability materials consisting of moderately indurated beds of clayey and sandy gravels with subordinate amounts of clayey sands and sandy clays (NGI, 1987).

In general, sediments at the site consist of varying thicknesses of gravel/sand fill with minor asphalt debris underlain by interbedded sandy gravels and fine to medium grained sands or silty sands. Depth to bedrock varies from approximately 14-17 feet BGS. The bedrock consists of moderately indurated olive green siltstone or claystone.

Objective

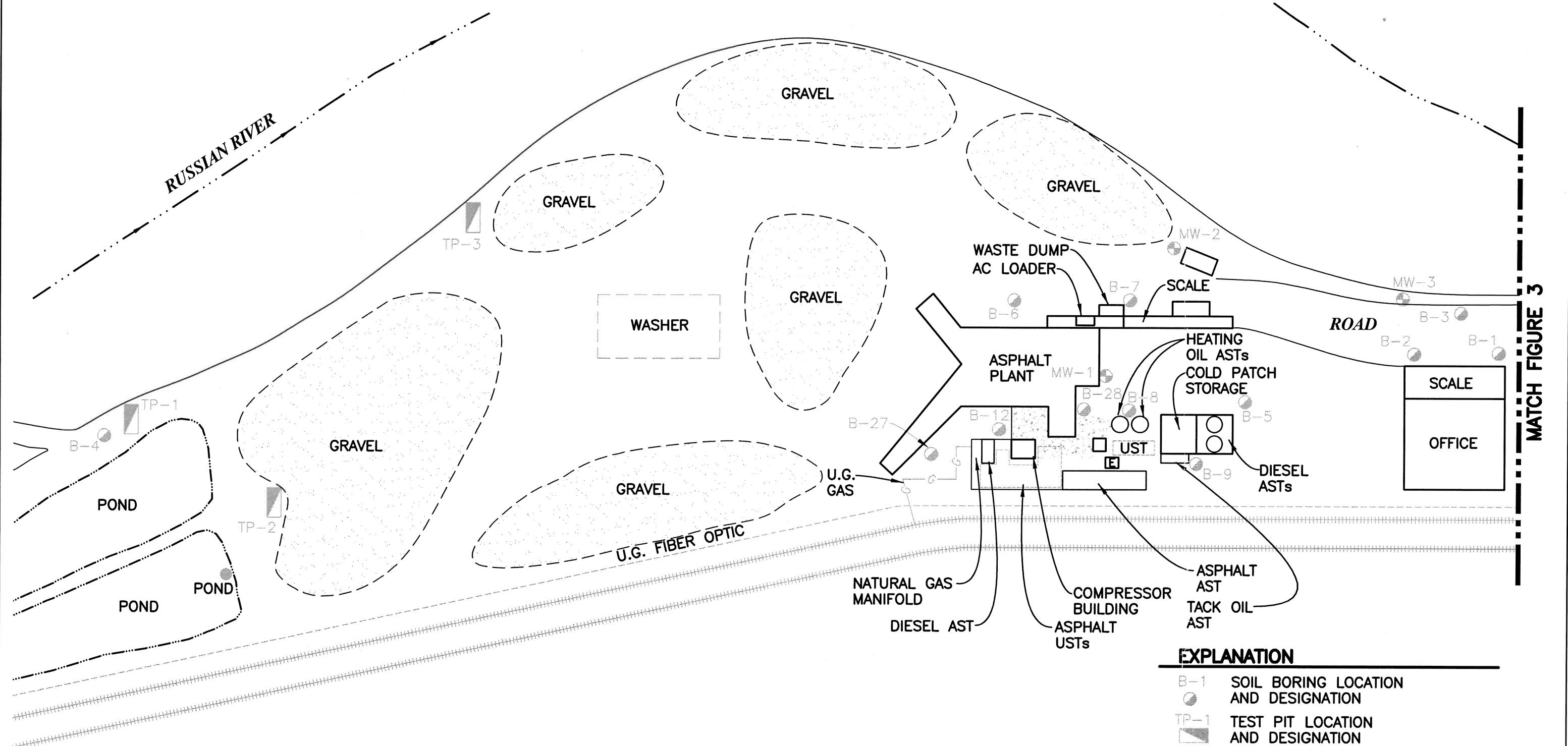
The objective of the work scope was to define the extent of any soil or groundwater contamination in the vicinity of the fuel dispensers, Aboveground Storage Tanks (ASTs) and wash pad, and at the debris and material storage areas. Shallow contaminated soil near the used oil AST behind the shop was to be excavated.

Field Activities

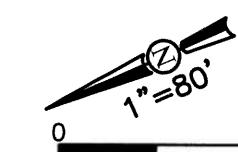
Soil Excavation

On May 4, 2006, discolored soil from the vicinity of the used oil AST was excavated. The approximate area of excavation is shown on Figure 5. Planning for this excavation assumed a limited effort directly adjacent to the used oil AST. Upon commencing field activities, it was apparent that the extent of discolored soil was greater than anticipated. Because the scope of the

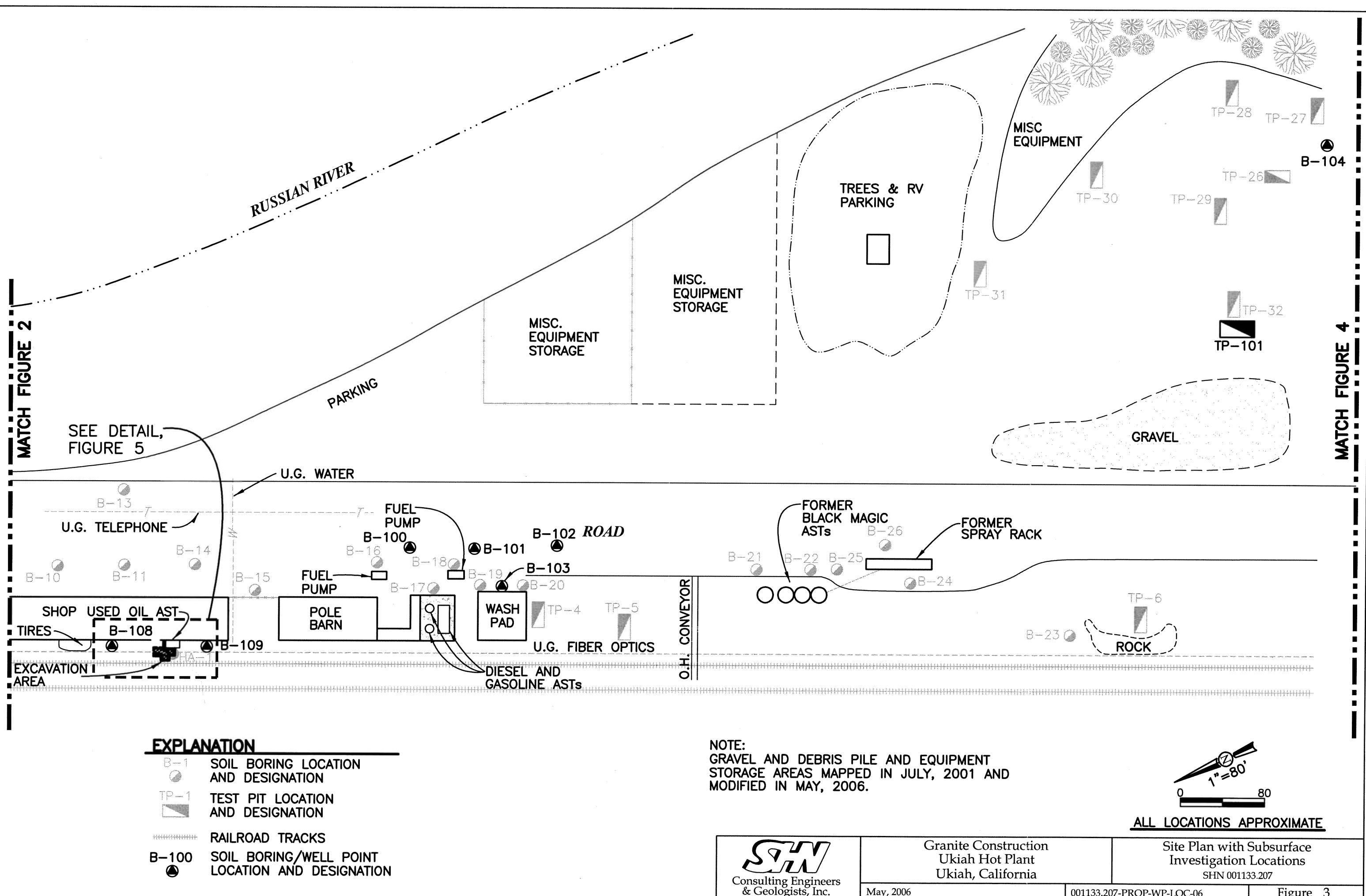
MATCH FIGURE 3



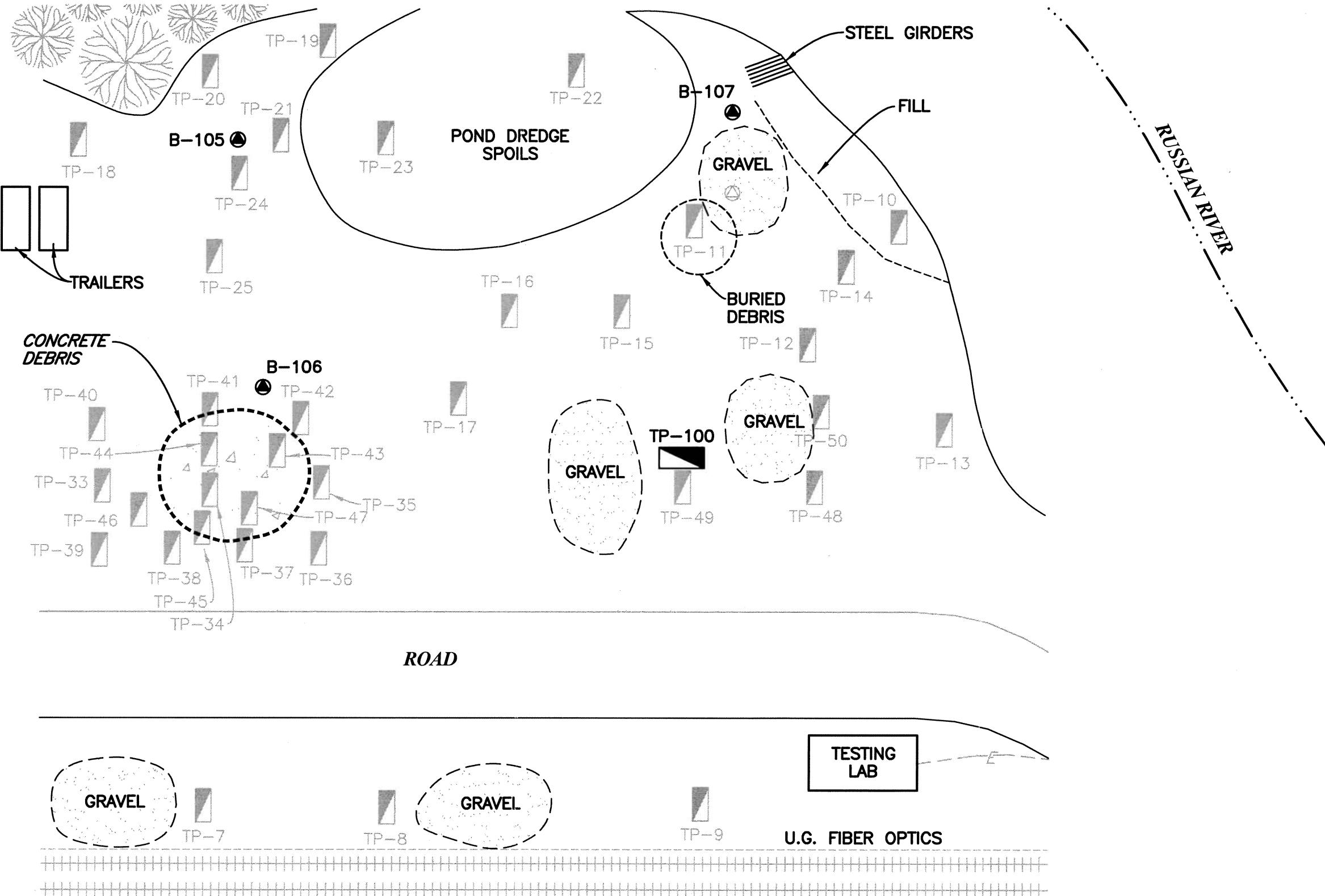
NOTE:
GRAVEL AND DEBRIS PILE AND EQUIPMENT
STORAGE AREAS MAPPED IN JULY, 2001
ALL LOCATIONS APPROXIMATE



ALL LOCATIONS APPROXIMATE



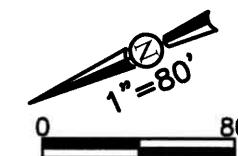
MATCH FIGURE 3



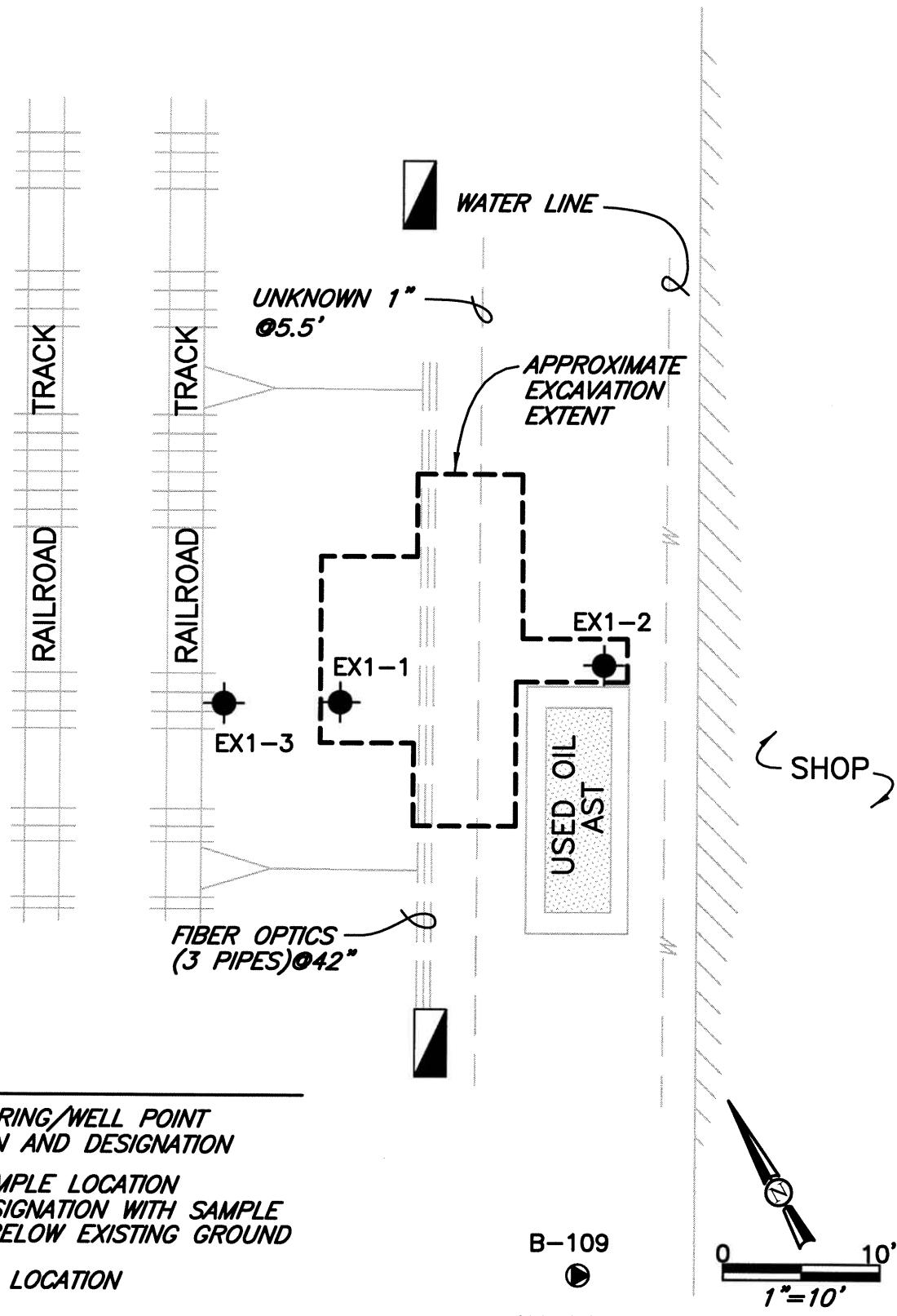
EXPLANATION

- B-1 SOIL BORING LOCATION AND DESIGNATION
- TP-41 TEST PIT LOCATION AND DESIGNATION
- B-106 SOIL BORING/WELL POINT LOCATION AND DESIGNATION
- ||||| RAILROAD TRACKS

NOTE:
GRAVEL AND DEBRIS PILE AND EQUIPMENT
STORAGE AREAS MAPPED IN JULY, 2001 AND
MODIFIED IN MAY, 2006.



ALL LOCATIONS APPROXIMATE



project was expanding and due to the proximity of the excavation to the railroad tracks, the work was halted. Two shallow test pits were then excavated to the north and south to determine the extent of contamination. Discolored soil was observed in each pit. The excavation was also limited in extent due to the presence of an underground fiber optic line, which runs near the railroad tracks along the length of the property, and an additional unmarked utility line near the fiber optic line. The depth of the excavation varied from approximately 3 to 6 feet BGS. Three soil samples were collected from the excavation area using a hand auger. Soil samples were collected directly from the hand auger bucket and placed in laboratory supplied brass tubes or glass jars and were placed in an iced cooler and transported under chain-of-custody documentation to a State of California-certified analytical laboratory for chemical analysis. Soil samples were analyzed for constituents discussed in the "Laboratory Analysis" section. Excavated soil was stockpiled on site on Visqueen® and the pile covered with Visqueen®.

Test Pits

On May 4, 2006, SHN supervised Granite in the excavation of two test pits (TP-100 and TP-101). Test pit locations are shown on Figures 3 and 4. Test pit locations were chosen based on soil analytical data from shallow soil samples collected from test pits TP-32 and TP-49. At these locations, a thin layer of fill was present which contained detectable concentrations of petroleum hydrocarbons. The test pits were extended to approximately 5 to 6-feet BGS, and soil samples were collected from the test pit sidewall below the fill layer. Soil samples were collected in laboratory supplied containers and were placed in an iced cooler, and transported under chain-of-custody documentation to a State of California-certified analytical laboratory for chemical analysis. Soil samples were analyzed for constituents discussed in the "Laboratory Analysis" section.

Soil and Groundwater Sampling

On May 5, 2006, SHN supervised Fisch Drilling in the collection of soil and groundwater samples. Sample locations are shown on Figures 3 and 4. Soil samples were collected using the Geoprobe® Macro Core sampling system from ten borings (B-100 through B-109). The approved work plan consisted of collecting soil and groundwater samples from eight borings, and two additional borings were added near the excavation area. Two soil samples were collected from each boring. Borings were extended to a maximum of 16 feet BGS. Samples were continuously collected in 4-foot sections. Following retrieval of the sampler, the plastic tube was removed from the sampler, and the selected sample aliquot was cut from the desired depth and sealed on both ends with Teflon® tape and plastic caps. Soils in the remaining sample tubes were used for soil descriptions. Each soil sample was labeled with the project name, project number, sample number, sample depth, sample time and date. All samples were placed in Ziploc® bags and stored in an iced cooler. Selected soil samples were submitted to the laboratory for analysis. Each soil sample was analyzed for constituents described in the "Laboratory Analysis" section. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures.

Eight groundwater samples were collected from temporary well points using the Geoprobe® Well Point Screen Sampler. Well points B-100 and B-107 were dry after sitting for at least 15 minutes at two screened intervals. For groundwater sample collection, a stainless steel screen contained in a drive rod was driven to the desired depth and the rod was then retracted which exposed the screen to groundwater. Groundwater was collected from each boring using new polyethylene tubing with a bottom mounted check valve and placed in laboratory supplied containers. Each

Ms. Kasey Ashley

Site Investigation Report of Findings, May 2006, Granite Construction Ukiah Hot Plant

July 7, 2006

Page 4

groundwater sample container was labeled with the project name, project number, sample number, sample time, and date and placed in an iced cooler. Each groundwater sample was analyzed for constituents described in the "Laboratory Analysis" section. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures.

Depth to water measurements from grade were taken using an electrical conductivity sensor prior to removing the temporary well point.

All bore holes were backfilled with cement grout and capped at the surface to match the existing surface.

Attachment 2 presents field notes.

Laboratory Analysis

Each soil and groundwater sample was analyzed for:

- Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG) in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 8015B.
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) and Methyl Tertiary-Butyl Ether (MTBE) in general accordance with EPA Method No. 8021B.

Soil and groundwater samples were submitted to North Coast Laboratories, of Arcata, California.

Equipment Decontamination Procedures

All drilling equipment was cleaned prior to being transported to the site. All equipment that required on-site cleaning was decontaminated using the triple wash system. The equipment was first washed in a water solution using Liquinox® cleaner, followed by two distilled water rinses.

Investigation-Derived Waste Management

Water used in the decontamination of equipment, tools, and all purge water was contained in Department of Transportation (DOT)-approved 17 E/H, 55-gallon drums. The water was transported to SHN's purge water storage facility and was discharged, under permit, to the City of Eureka municipal sewer system. A total of 5 gallons of water was generated during the investigation. Additionally, approximately 20 gallons of purge water from the fourth quarter 2005 groundwater-monitoring event was discharged. Discharge receipts are included in Attachment 2.

Approximately 30 cubic yards of excavated soil is stockpiled on-site. The soil will be processed through the asphalt plant pending approval from the Mendocino County Air Quality Management District.

Results of the Investigation

Subsurface Lithology

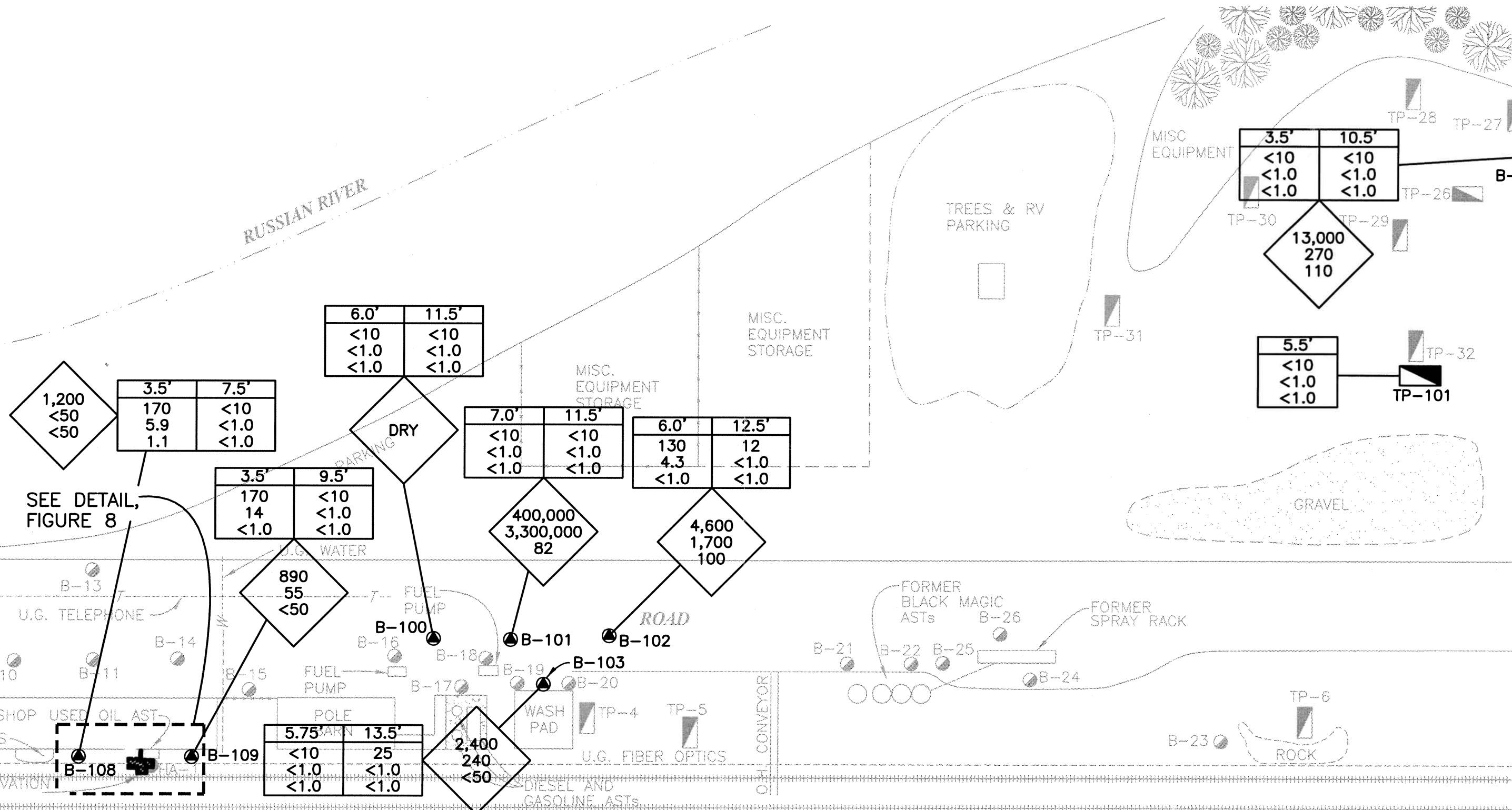
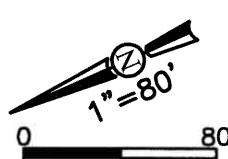
Soil borings were logged from discrete drilling samples. The maximum depth explored was approximately 15 feet BGS. In general, underlying soils at the site consist of varying thicknesses of gravel/sand fill underlain by interbedded sandy gravels and fine to medium grained sands or silty sands. Bedrock was encountered at approximately 14 feet BGS in borings B-101 and B-102. The bedrock consisted of moderately indurated olive green siltstone or claystone. The saturated zone was observed in the unconsolidated sediments above the bedrock. Soil boring logs are included in Attachment 2.

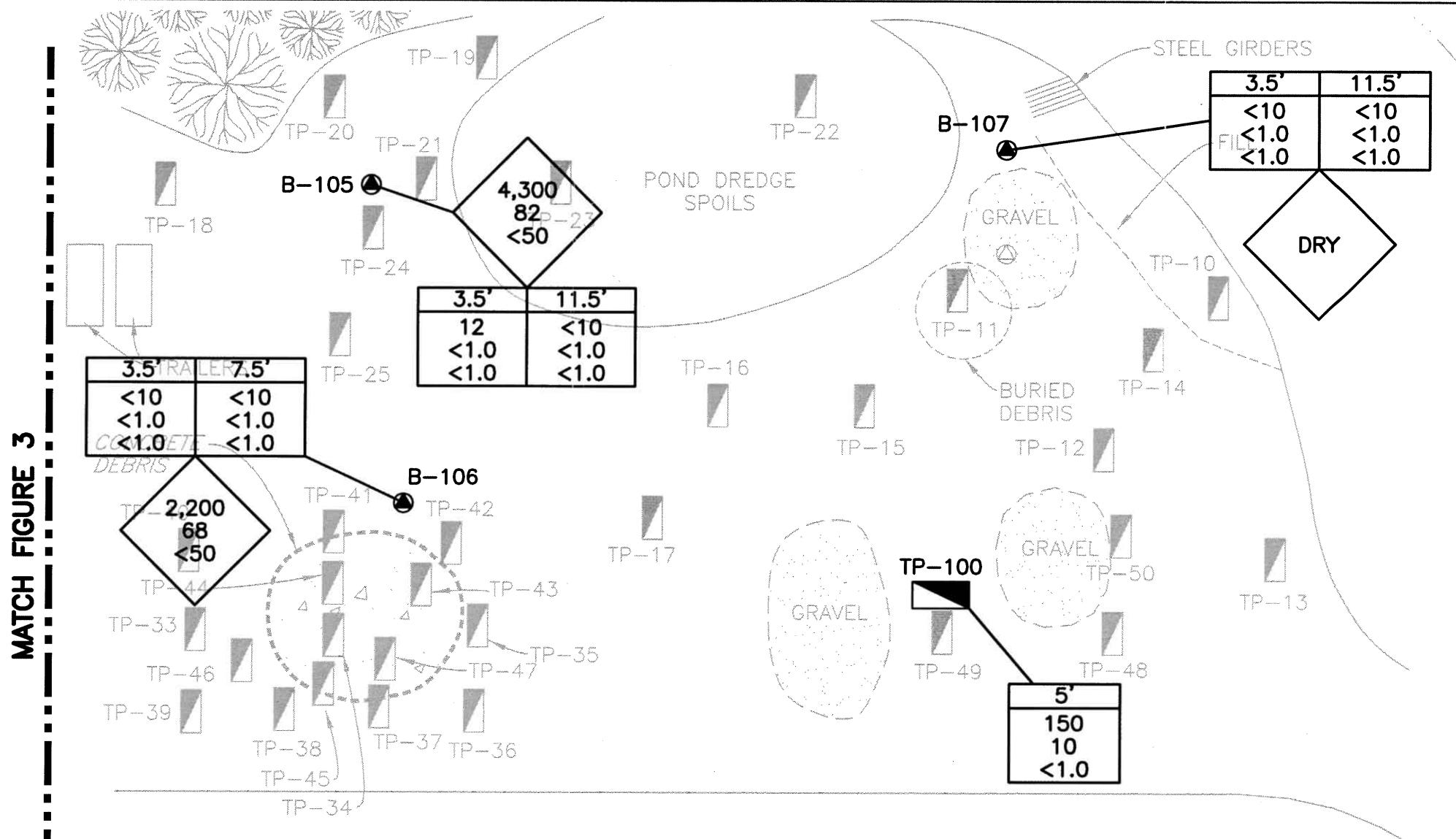
Soil Analytical Results

Twenty-five soil samples were submitted for laboratory analysis. The laboratory analytical results for the soil samples collected during the investigation are presented in Table 1 and summarized on Figures 6, 7, and 8.

Table 1
Soil Analytical Results, May 4 & 5, 2006
Ukiah Hot Plant, Ukiah, California
(in ug/g)¹

Sample Location and Depth (in feet)	TPHMO ²	TPHD ²	TPHG ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁴
B-100 @ 6'	<10 ⁵	<1.0	<1.0	<0.0050 ⁶	<0.0050	<0.0050	<0.0050	<0.050
B-100 @ 11.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-101 @ 7'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-101 @ 11.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-102 @ 6'	130	4.3 ⁶	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-102 @ 12.5'	12	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-103 @ 5.75	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-103 @ 13.5'	25	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-104 @ 3.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-104 @ 10.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-105 @ 3.5'	12	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-105 @ 11.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-106 @ 3.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-106 @ 7.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-107 @ 3.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-107 @ 11.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-108 @ 3.5'	170	5.9 ⁶	1.1 ⁷	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-108 @ 7.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050

MATCH FIGURE 2**MATCH FIGURE 2****MATCH FIGURE 4**



MATCH FIGURE 3

EXPLANATION

- B-1 SOIL BORING LOCATION
AND DESIGNATION

TP-41 TEST PIT LOCATION
AND DESIGNATION

B-106 SOIL BORING/WELL POINT
LOCATION AND DESIGNATION

RAILROAD TRACKS

SOIL ANALYTICAL RESULTS

3.5'	SOIL SAMPLE DEPTH (FEET BGS)
<10	TPHMO
<1.0	TPHD
<1.0	TPHG

RESULTS IN ug/g

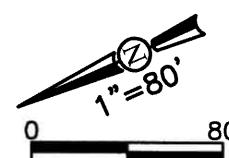
GROUNDWATER ANALYTICAL RESULTS

```

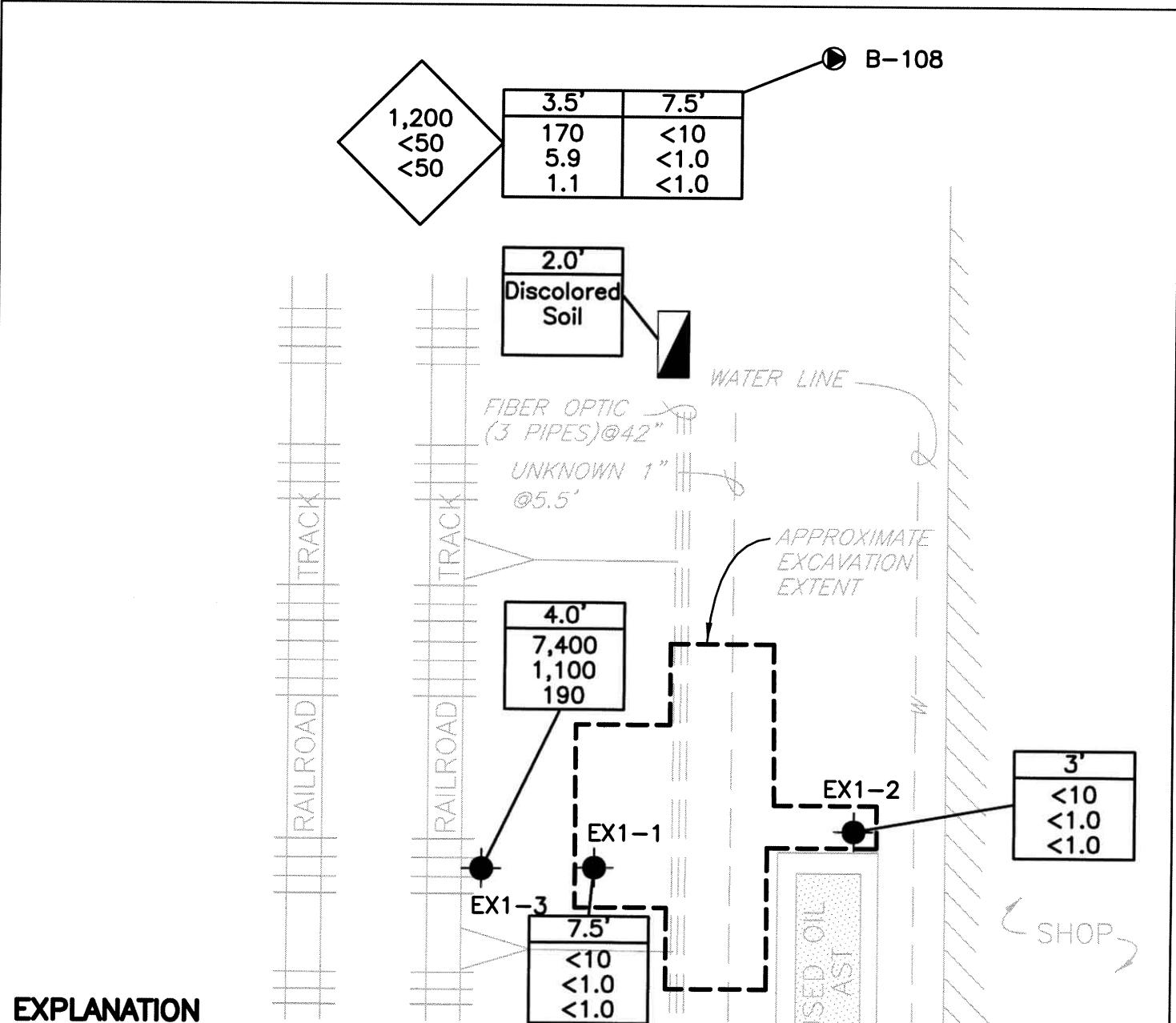
graph LR
    A[890  
55  
<50] --> B[TPHMO  
TPHD  
TPHG]
    B --> C[RESULTS IN ug/L]
  
```

The diagram consists of three main components. On the left is a diamond-shaped box containing the numbers 890, 55, and <50. An arrow points from this box to a rectangular box in the center containing the labels TPHMO, TPHD, and TPHG. Another arrow points from the center box to the right, where the text "RESULTS IN ug/L" is displayed.

NOTE:
GRAVEL AND DEBRIS PILE AND EQUIPMENT
STORAGE AREAS MAPPED IN JULY, 2001 AND
MODIFIED IN MAY, 2006.



ALL LOCATIONS APPROXIMATE



EXPLANATION

B-108 SOIL BORING/WELL POINT LOCATION AND DESIGNATION

EX1-1 SOIL SAMPLE LOCATION AND DESIGNATION



TEST PIT LOCATION

SOIL ANALYTICAL RESULTS

3.5'

<10
<1.0
<1.0

SOIL SAMPLE DEPTH (FEET BGS)

TPHMO
TPHD
TPHG

RESULTS IN ug/g

GROUNDWATER ANALYTICAL RESULTS

890
55
<50

TPHMO
TPHD
TPHG

RESULTS IN ug/L

3.5'	9.5'
170	<10
14	<1.0
<1.0	<1.0

2.0'
Discolored Soil

890
55
<50

B-109

0 10'
1"=10'

ALL LOCATIONS APPROXIMATE

Ms. Kasey Ashley

Site Investigation Report of Findings, May 2006, Granite Construction Ukiah Hot Plant

July 7, 2006

Page 6

Table 1
Soil Analytical Results, May 4 & 5, 2006
Ukiah Hot Plant, Ukiah, California
(in ug/g)¹

Sample Location and Depth (in feet)	TPHMO ²	TPHD ²	TPHG ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁴
B-109 @ 3.5'	170	14 ⁶	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
B-109 @ 9.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
TP-100 @ 5'	150	10 ⁶	<1.0	<0.0050	0.010	<0.0050	<0.0050	<0.050
TP-101 @ 5.5'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
EX1-1 @ 7.5'	<10	<1.0	<1.0	<0.0050	<0.015	<0.0050	<0.0050	<0.050
EX1-2 @ 3'	<10	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
EX1-3 @ 4'	7,400	1,100 ⁶	190 ⁸	<0.0050	0.014	0.0058	0.012	<0.050

1. ug/g: micrograms per gram
2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO) and as Diesel (TPHD) analyzed in general accordance with EPA Method No. 8015B.
3. Total Petroleum Hydrocarbons as Gasoline (TPHG) analyzed in general accordance with EPA Method No. 8015B.
4. Benzene (B), Toluene (T), Ethylbenzene (E), Xylenes (X), and Methyl Tertiary-Butyl Ether (MTBE) analyzed in general accordance with EPA Method No. 8021B.
5. <: Denotes a value that is "less than" the method detection limit.
6. Contain material similar to degraded or weathered diesel oil.
7. Does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.
8. Does not present a peak pattern consistent with that of gasoline. The material appears to be a product heavier than gasoline. The reported result represents the amount of material in the gasoline range.

TPHMO, TPHD, and TPHG were detected in several of the soil samples. Low concentrations of BTEX components were detected in two soil samples. MTBE was not detected above the laboratory method detection limits in any soil samples analyzed. The laboratory analytical report is included in Attachment 3.

Groundwater Analytical Results

The laboratory analytical results for the groundwater samples collected during the investigation are presented in Table 2 and summarized on Figures 6 and 7.

TPHMO and TPHD were detected in the majority of groundwater samples analyzed with the highest concentrations detected in B-101. TPHG was detected in three of the groundwater samples analyzed, however the analytical laboratory noted that the material was likely a product heavier than gasoline. MTBE was not detected above the method detection limits in any groundwater samples analyzed. The laboratory analytical report is included in Attachment 3.

Ms. Kasey Ashley

Site Investigation Report of Findings, May 2006, Granite Construction Ukiah Hot Plant

July 7, 2006

Page 7

Table 2
Groundwater Analytical Results, May 5, 2006
Ukiah Hot Plant, Ukiah, California
(in ug/L)¹

Sample Location	TPHMO ²	TPHD ²	TPHG ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁴
B-100	Dry							
B-101	400,000 ⁵	3,300,000 ⁶	82 ⁷	<0.50 ⁸	<0.50	<0.50	<0.50	<3.0
B-102	4,600	1,700 ⁶	100 ⁷	<0.50	<0.50	<0.50	<0.50	<3.0
B-103	2,400	240 ⁶	<50	0.65	0.57	<0.50	<0.50	<3.0
B-104	13,000	270 ⁶	110 ⁷	<0.50	<0.50	<0.50	<0.50	<3.0
B-105	4,300	82 ⁶	<50	<0.50	<0.50	<0.50	<0.50	<3.0
B-106	2,200	68 ⁶	<50	<0.50	<0.50	<0.50	<0.50	<3.0
B-107	Dry							
B-108	1,200	<50	<50	<0.50	<0.50	<0.50	<0.50	<3.0
B-109	890	55 ⁶	<50	<0.50	<0.50	<0.50	<0.50	<3.0

1. ug/L: micrograms per Liter

2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO) and as Diesel (TPHD) analyzed in general accordance with EPA Method No. 8015M.

3. Total Petroleum Hydrocarbons as Gasoline (TPHG) analyzed in general accordance with EPA Method No. 5030.

4. Benzene (B), Toluene (T), Ethylbenzene (E), Xylenes (X), and Methyl Tertiary-Butyl Ether (MTBE) analyzed in general accordance with EPA Method No. 8021B.

5. Does not have the peak pattern typical of fresh motor oil, however, the results reported represent the amount of material in the motor oil range.

6. Contain material similar to degraded or weathered diesel oil.

7. Do not present a peak pattern consistent with that of gasoline. The material appears to be a product heavier than gasoline. The reported result represents the amount of material in the gasoline range.

8. <: Denotes a value that is "less than" the method detection limit.

Discussion

Used Oil AST

Approximately 30 cubic yards of soil was removed from the vicinity of the used oil AST. Three soil samples were collected from the excavation area for laboratory analysis. Two soil borings/well points were installed near the excavation area (B-108 & B-109). Based on visual observations, Photo-Ionization Detector (PID) readings, and laboratory analytical results, the vertical extent of the discolored soil appears to be limited to the upper 6-feet of soil. The horizontal extent of the discolored soil is not defined. Low concentrations of TPHMO (1,200 and 890 ug/L) were detected in groundwater samples collected from the vicinity of the used oil AST.



Ms. Kasey Ashley

Site Investigation Report of Findings, May 2006, Granite Construction Ukiah Hot Plant

July 7, 2006

Page 8

Fuel Dispensers and Wash Pad

Four soil borings/temporary well points were installed near the fuel dispensers and wash pad area (B-100 through B-103). TPHMO was detected in three of the soil samples at concentrations ranging from 12 to 130 micrograms per gram (ug/g). TPHD was detected in one soil sample at a concentration of 4.3 ug/g. Three groundwater samples were collected for analysis as well point B-100 was dry. TPHMO was detected in each groundwater sample analyzed at concentrations ranging from 2,400 to 400,000 ug/L. TPHD was detected in each groundwater sample analyzed at concentrations ranging from 240 to 3,300,000 ug/L. Based on the soil and groundwater analytical results from this investigation and the phase 2 investigation (SHN, 2003), it appears that there is a source area of vadose zone soil contamination near the diesel fuel dispenser which has impacted groundwater downgradient of the dispenser.

Material Storage Area

Four soil borings/well points (B-104 through B-107) and two test pits (TP-100 & TP-101) were installed in the material storage area. Ten soil samples were collected for laboratory analysis. The purpose of the test pits were to determine the vertical extent of contamination in the vicinity of TP-32 and TP-49, which had elevated concentrations of petroleum hydrocarbons at shallow depths (SHN, 2003). Petroleum hydrocarbons were not detected in the soil sample from TP-101 (near TP-32). Low concentrations of TPHMO and TPHD (150 and 10 ug/g, respectively) were detected in the soil sample from TP-100 (near TP-49). Petroleum hydrocarbons were not detected in any soil samples from the soil borings.

Only three groundwater samples were collected for laboratory analysis because B-107 was dry. TPHMO was detected in each groundwater sample at concentrations ranging from 2,200 ug/L to 13,000 ug/L. TPHD was detected in each groundwater sample at concentrations ranging from 68 to 270 ug/L. TPHG was detected in the groundwater sample from B-104 at a concentration of 110 ug/L.

Our experience at this site shows that petroleum hydrocarbon concentrations in groundwater samples collected from temporary well points are generally higher than petroleum hydrocarbon concentrations detected in groundwater samples collected from monitoring wells.

Recommendations

Based on the results of this work, we believe it would be appropriate to discuss these findings prior to initiating further activities. Therefore, Granite and SHN would like to schedule a meeting with you at the site at your convenience.

Ms. Kasey Ashley

Site Investigation Report of Findings, May 2006, Granite Construction Ukiah Hot Plant

July 7, 2006

Page 9

If you have any questions regarding the work completed, please call me at 707/441-8855.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.



John Aveggio, P.E.

Project Manager

JJA/RMR:lms

- Attachments:
1. Historic Data
 2. Field Notes
 3. Laboratory Analytical Report

copy w/attach:

Mr. Geoff Boraston, Granite Construction
Mr. Jordan Main, Granite Construction
Ms. Amy Shanahan, Granite Construction
Mr. Wayne Briley, Mendocino County Division of Environmental Health



References Cited

California Regional Water Quality Control Board, North Coast Region. (February 16, 2006). Letter concurring with SHN's assessment that no further monitoring or investigation is necessary in the vicinity of the asphalt plant. Santa Rosa: RWQCB.

NGI. (1987). *Geologic Investigation of the Existing York Ranch Wood Waste Disposal Facility Operated by Louisiana Pacific Corporation near Calpella, Mendocino County, California*. Eureka: NGI.

SHN Consulting Engineers & Geologists, Inc. (2003). *Environmental Site Assessment, Ukiah Hot Plant, Ukiah, California*. Eureka: SHN.

---. (2004). Monitoring Well Installation and First Quarter 2004 Groundwater Monitoring Report, Ukiah Hot Plant, Ukiah, California; Case No. 1NMC545. Eureka: SHN.

Attachment 1
Historic Data

Table 1-1
Soil Analytical Results, July 9 - 11, 2001
Granite Construction, Ukiah Hot Plant, Ukiah, California
(in ug/g)¹

Sample Location/Depth (feet)	TPHD ²	TPHMO ²	TPHG ³	B ³	T ³	E ³	m.p-X ³	o-X ³	MTBE ³
B-1 @ 3.5'	<1.0 ⁴	<10	1.0	<0.0050	0.05	<0.0050	<0.0050	<0.0050	<0.050
B-2 @ 7.5'	<1.0	<10	<1.0	<0.0050	0.067	<0.0050	<0.0050	<0.0050	<0.050
B-3 @ 3.5'	<1.0	190	2.6	<0.0050	0.074	<0.0050	0.0079	<0.0050	<0.050
B-5 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.022	<0.0050	<0.0050	<0.0050	<0.050
B-6 @ 7.5'	30	140	<1.0	<0.0050	0.016	<0.0050	<0.0050	<0.0050	<0.050
B-7 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.014	<0.0050	<0.0050	<0.0050	<0.050
B-8 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.017	<0.0050	<0.0050	<0.0050	<0.050
B-9 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.071	<0.0050	<0.0050	<0.0050	<0.050
B-10 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.027	<0.0050	<0.0050	<0.0050	<0.050
B-11 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.063	<0.0050	<0.0050	<0.0050	<0.050
B-12 @ 7.5'	<1.0	10	<1.0	<0.0050	0.065	<0.0050	<0.0050	<0.0050	<0.050
B-13 @ 3.5'	<1.0	<10	1.4	<0.0050	0.29	<0.0050	<0.0050	<0.0050	<0.050
B-14 @ 7.5'	<1.0	<10	2.4	<0.0050	0.026	<0.0050	0.0083	<0.0050	<0.050
B-15 @ 7.5'	<1.0	<10	1.0	<0.0050	0.067	<0.0050	<0.0050	<0.0050	<0.050
B-16 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.032	<0.0050	<0.0050	<0.0050	<0.050
B-17 @ 7.5'	<1.0	<10	1.3	<0.0050	0.038	<0.0050	<0.0050	<0.0050	<0.050
B-18 @ 7.5'	3,000	1,100	370	<0.050	0.081	<0.050	<0.050	<0.050	<0.50
B-19 @ 6'	<1.0	<10	1.1	<0.0050	0.031	<0.0050	<0.0050	<0.0050	<0.050
B-20 @ 7.5'	<1.0	<10	<1.0	<0.0050	0.048	<0.0050	<0.0050	<0.0050	<0.050
B-21 @ 6'	<1.0	<10	<1.0	<0.0050	0.031	<0.0050	0.0067	<0.0050	<0.050
B-22 @ 7.5'	<1.0	<10	<1.0	<0.0050	0.035	<0.0050	<0.0050	<0.0050	<0.050
B-23 @ 7'	<1.0	<10	<1.0	<0.0050	0.016	<0.0050	<0.0050	<0.0050	<0.050
B-24 @ 7.5'	<1.0	<10	<1.0	<0.0050	0.049	<0.0050	<0.0050	<0.0050	<0.050
B-25 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.076	<0.0050	<0.0050	<0.0050	<0.050
B-26 @ 15.5'	<1.0	<10	<1.0	<0.0050	0.03	<0.0050	<0.0050	<0.0050	<0.050
B-27 @ 3'	3.7	<10	2.4	<0.0050	0.048	<0.0050	0.005	<0.0050	<0.050
B-27 @ 7.5'	<1.0	<10	1.3	<0.0050	0.057	<0.0050	<0.0050	<0.0050	<0.050
B-28 @ 7'	<1.0	<10	<1.0	<0.0050	0.05	<0.0050	0.0061	<0.0050	<0.050
B-28 @ 12'	1,700	5,200	180	<0.050	0.072	<0.050	<0.050	<0.050	<0.50
B-28 @ 16'	13	51	12	<0.0050	0.014	<0.0050	<0.0050	<0.0050	<0.050
HA-1 @ 3.5'	1,600	23,000	74	0.0064	0.061	<0.25	<0.25	<0.50	<0.050
HA-1 @ 6'	<1.0	<10	1.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
TP-4 @ 2'	19	240	1.2	<0.0050	0.026	<0.0050	0.0056	<0.0050	<0.050
TP-5 @ 2.5'	<1.0	22	1.0	<0.0050	0.04	<0.0050	0.0061	<0.0050	<0.050
TP-6 @ 2'	<1.0	<10	<1.0	<0.0050	0.023	<0.0050	<0.0050	<0.0050	<0.050
TP-7 @ 1.5'	260	210	110	<0.0050	0.028	<0.0050	0.0059	<0.0050	<0.050
TP-8 @ 3.5'	<1.0	<10	<1.0	<0.0050	0.026	<0.0050	<0.0050	<0.0050	<0.050
TP-9 @ 2'	<1.0	<10	<1.0	<0.0050	0.053	<0.0050	<0.0050	<0.0050	<0.050
TP-11 @ 2.5'	7.7	110	2.0	<0.0050	0.13	<0.0050	<0.0050	<0.0050	<0.050
TP-16 @ 3'	4.5	100	<1.0	<0.0050	0.05	<0.0050	<0.0050	<0.0050	<0.050
TP-18 @ 3'	<1.0	<10	<1.0	<0.0050	0.082	<0.0050	<0.0050	<0.0050	<0.050
TP-24 @ 2'	40	450	<1.0	<0.0050	0.036	<0.0050	<0.0050	<0.0050	<0.050
TP-26 @ 4'	110	300	9.5	<0.0050	0.014	<0.0050	<0.0050	<0.0050	<0.050
TP-29 @ 2'	<1.0	38	<1.0	<0.0050	0.028	<0.0050	<0.0050	<0.0050	<0.050
TP-32 @ 1'	1,800	<1,000	790	<0.050	0.069	0.53	0.74	0.34	<0.50
TP-34 @ 0.5'	7,400	3,600	580	<0.050	0.11	0.16	0.35	0.53	<0.50
TP-49 @ 2.5'	1,700	1,600	2.0	<0.0050	0.026	<0.0050	<0.0050	<0.0050	<0.050
TP-Composite ⁵	<1.0	20	1.0	<0.0050	0.095	<0.0050	<0.0050	<0.0050	<0.050

1. ug/g: micrograms per gram
2. Total Petroleum Hydrocarbons as Diesel (TPHD) and as Motor Oil (TPHMO) analyzed in general accordance with EPA Method 3550.
3. Total Petroleum Hydrocarbons as Gasoline (TPHG), Benzene (B), Toluene (T), Ethylbenzene (E), Xylenes (X), and Methyl Tertiary-Butyl Ether (MTBE) analyzed in general accordance with EPA Method 8021B.
4. <: denotes a value that is "less than" the method detection limit.
5. TP-Composite is a composite sample of TP-22 and TP-23.



Table 1-2
Groundwater and Surface Water Analytical Results, July 9-11, 2001
Granite Construction, Ukiah Hot Plant, Ukiah, California
(in ug/L)¹

Sample Location	TPHD ²	TPHMO ²	TPHG ³	B ³	T ³	E ³	X ³	MTBE ³	FO ⁴	VOCs ⁵
B-3	75	2,800	<50 ⁶	<0.50	<0.50	<0.50	<0.50	<0.50	ND ⁷	ND
B-4	200	3,500	<50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND
B-15	<50	<170	<50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND
B-19	<50	<170	64	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND
B-23	<50	180	<100	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND
B-28	280,000	1,100,000	4,400	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND
Pond	<50	<170	<50	<0.50	<0.50	<0.50	<0.50	<0.50	ND	ND

1. ug/L: micrograms per Liter

2. Total Petroleum Hydrocarbons as Diesel (TPHD) and as Motor Oil (TPHMO) analyzed in general accordance with EPA Method 3510.

3. Total Petroleum Hydrocarbons as Gasoline (TPHG), Benzene (B), Toluene (T), Ethylbenzene (E), total Xylenes (X), Methyl Tertiary-Butyl Ether (MTBE), analyzed in general accordance with EPA Method 8260B.

4. FO: Fuel oxygenates Diisopropyl Ether (DIPE), Ethyl Tertiary-Butyl Ether (ETBE), Tertiary-Amyl Methyl Ether (TAME), Tertiary-Butyl Alcohol (TBA), analyzed in general accordance with EPA Method 8260B.

5. Volatile Organic Compounds (VOCs) analyzed in general accordance with EPA Method 8260B.

6. <: Denotes a value that is "less than" the method detection limit.

7. ND: Not Detected

Attachment 2
Field Notes



CONSULTING ENGINEERS & GEOLOGISTS, INC.

480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-enr.com

DAILY FIELD REPORT

630 - 500

JOB NO

001133.207

Page 1 of 2

PROJECT NAME <u>GRANITE UKIAH</u>	CLIENT/OWNER <u>GRANITE</u>	DAILY FIELD REPORT SEQUENCE NO 1
GENERAL LOCATION OF WORK <u>UKIAH, CA</u>	OWNER/CLIENT REPRESENTATIVE <u>JORDAN MAIN</u>	DATE <u>5-4-06</u> DAY OF WEEK <u>THURS.</u>
TYPE OF WORK <u>EXCAVATION / Test pits</u>	WEATHER <u>CLOUDY / SUNNY (PM)</u>	PROJECT ENGINEER/ SUPERVISOR <u>J. ANGGLIO</u>
SOURCE & DESCRIPTION OF FILL MATERIAL <u>-FROM Pile IN YARD</u>	KEY PERSONS CONTACTED	TECHNICIAN <u>R. RUEBER</u>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

6:30	ARRIVE FOR SITE ARRIVE 9:30 CHECKING LOCATIONS
10:15	DAVE W/ WILTEL ON-SITE - MIKE OPERATOR RICK PLANT FOREMAN
10:00	START DIGGING NCR WASTE ORL TANK ~150 ppm IN SOIL F.O. LINC N 42" BGS 800' 3 PIPES ~1.5" UNKNOWN LINE @ 5.5' BGS ~1" WRAPPED
3:00	JORDAN MAIN ON SITE - HAD OPERATOR BACKHOE A PITS - VISIBLE CONTAMINATION IN SOIL ~2' BGS - STOP PIG - BACKFILL W/ CLAYEY GRAVELY(F) MATERIAL
16:00	START @ TP-100 COLLECT SAMPLE @ 5'
16:25	START @ TP-101 COLLECT SAMPLE @ 5.5'
16:35	BACKHOE OF OFFSITE - CHECK WATER LEVEL IN MW-3 ~11.2' BGS

COPY GIVEN TO:

REPORTED BY:



FID DATE 04/16/02 & MAP
JUL 2 BORINGS

CONSULTING ENGINEERS & GEOLOGISTS, INC.

480 Hemsted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530.221.0135 • E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-enr.com

7:20 - 6:30

DAILY FIELD REPORT

JOB NO 001133-207

Page 1 of

PROJECT NAME GRANITE UKIAH	CLIENT/OWNER GRANITE	DAILY FIELD REPORT SEQUENCE NO 2	
GENERAL LOCATION OF WORK UKIAH	OWNER/CLIENT REPRESENTATIVE TORREN MAIN	DATE 5-5-06	DAY OF WEEK FRI
TYPE OF WORK SOIL BORING / Wellpoints	WEATHER overcast (AM) SUNNY (PM)	PROJECT ENGINEER/ SUPERVISOR J. AUGUSTIN	
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN R. RUBSON	
DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING			

- 7:30 ON-SITE FISCIT ON-SITE SAFETY MEETING
- 7:50 SET UP @ B-100 - CORE TO 12' DRIVE SS SAMPLER TO 16' SAW 12-16 RAY DRIVE TO 20 18-20 RAY LET SET PULL UP LET SET DRY
- 8:00 @ B-101 CORE - 15' SS SAMPLER TO 15' 511-15 WATER
- 9:00 @ B-102 CORE TO 15' SS SAMPLER 15 SH-15' POOR PRODUCER ONLY 2 40 ML & 160 ML IN 1/2 HOUR
- 10:30 @ B-103 CORE TO 15' SS WP 12-16' DTW ~ 14' POOR WATER PRODUCER
- 11:20 @ B-104 CORE TO 12' SS SAMPLER 12-16' BETTER WATER PRODUCER 11:30 PETE LOWMAN MCPHM ON-SITE
- 11:50 @ B-105 CORE - 12' SS SAW 12-16' GOOD WATER PRODUCER
- 12:30 @ B-106 CORE - 12' Perched water @ 5-6' - MOVE OVER 1 FOOT & DRIVE TO 16' WATER (Good PRODUCER)
- 13:00 @ B-107 CORE TO 12' DRIVE 12-10' LET SIT 15MIN RAY - CORE DRIVE TO 19' RECAST LET SIT 15MIN - DRY
- 14:00 TO B-108 Boring shot core to 12' 12-16 WATER P.L.OFFSITE
- 14:30 @ B-109 CORE - 12' DRIVE 12-16 WATER
- 15:00 FISCIT OFFSITE COLLECT ~20 GAL OF WATER FROM PURGE WATER DRUM FROM MON WELLS ~5 GAL OF DACION WATER
- 15:30 OFFSITE



**CONSULTING ENGINEERS
& GEOLOGISTS**

812 W. Wabash **707-441-8855**
Eureka, CA 95501 **707-441-8877**

BORING LOG

BORING ID: EK-1

PAGE 1 OF 1

PROJECT NAME GRANITE USTIAN

SAMPLER TYPE GRAB

LOCATION MAP

PROJECT NUMBER 001133.202

TOTAL DEPTH OF BORING 5'-0"

LOCATION

GROUND ELEVATION _____

DATE 5-4-06 START 10:20 FINISH 1500

BOREHOLE DIAMETER _____

DRILLING METHOD BACKHOE

BOREHOLE DIAMETER _____

DRILLER GRANITE LOGGED BY P. RUEZ

Ex - 1

REMARKS	BLOWS / 6"	OVA	SAMPLE INTERVAL	% RECOVERY	DEPTH (ft)	USCS CLASS	LITHOLOGIC DESCRIPTION
VARIES 150 PPM - 20 PPM					0		
					1	Fill	~ 19" FILL - GRAVEL, W SAND F-C
					2	SMY	TO 1" R-SA FEW WOOD PIECES CANS, HOSE, PK BN, SL MOIST. OIL FILTER'S - SLIGHT FP ON GRAVEL & CONTACT
					3	ML	SAND, F, SILTY, M DENSE, SL MOIST GREENISH GREY
					4	SM	- DEPTH VARIES ~ 3 - 4" SHARP COLOR CHANGE
					5		TO MED BN
					6		
					0		
					1		GRAVEL, W SAND F-C TO 1" SL MOIST-MOIST -
					2	ML	SILT, F SANDY, SL MOIST, GREENISH GREY HYD ODOR, STIFF,
					3		
					4	SM	SAND, F, SILTY, GREENISH GREY, SL MOIST HYD ODOR
					5		
					6		- BECOMES MED BN (SHARD) NO ODOR -

COMMENTS



Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-100

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 12.0 / 20.0 Feet BGS

DRILLING METHOD: GeoProbe

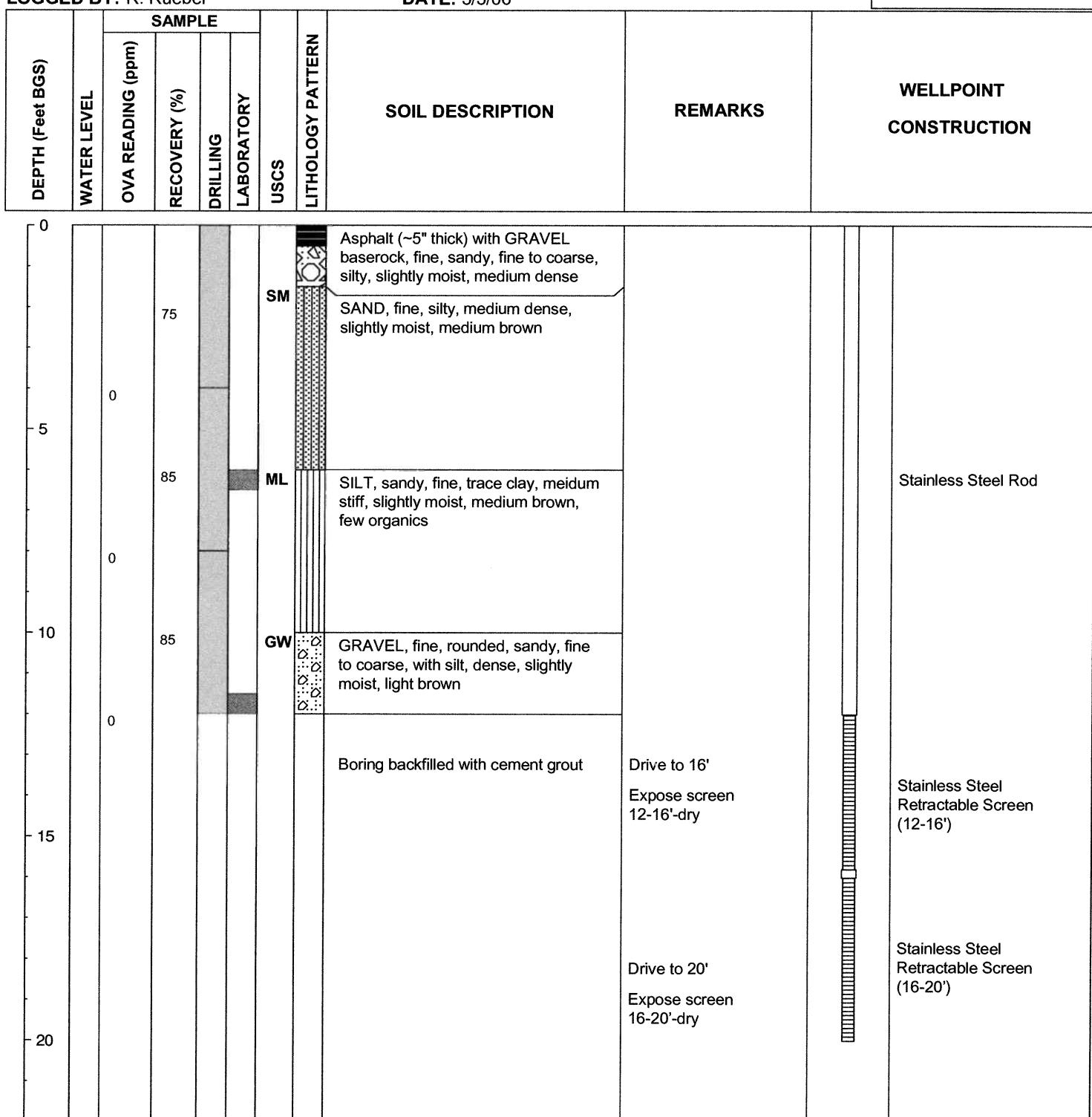
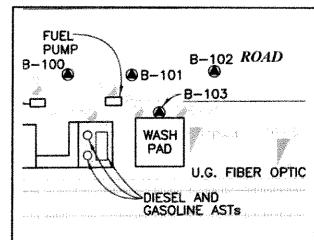
DEPTH TO FIRST WATER:--

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 & 16.0-20.0 Feet BGS

LOGGED BY: R. Ruebe

DATE: 5/5/06





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-101

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 15.0 / 15.0 Feet BGS

DRILLING METHOD: GeoProbe

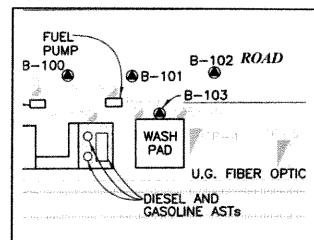
DEPTH TO FIRST WATER: ~12.0 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 11.0-15.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06



DEPTH (Feet BGS)	SAMPLE				LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
	WATER LEVEL	OVA READING (ppm)	RECOVERY (%)	DRILLING LABORATORY				
0					SM	Asphalt (~5" thick) with GRAVEL baserock, fine, sandy, fine to coarse, silty, slightly moist, medium dense		
0	75				ML	SAND, fine, silty, medium dense, slightly moist, medium brown Sand is fine to medium from 3-7'		
0	75				SW	SILT, trace clay, trace sand, fine, soft, moist, dark grey		
0	?				GW	SAND, fine to coarse, few gravel, fine, dense, slightly moist, light brown		
0	?				GW	GRAVEL, fine, rounded, sandy, fine to coarse, trace silt, dense, slightly moist, light brown		
0	?				RX	Becomes wet		
-15	0				RX	SILTSTONE, with fine sand, with clay, moderately indurated, slightly moist, olive green		
						Total depth of boring - 15.0 Feet BGS Boring backfilled with cement grout		



Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-102

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 15.0 / 15.0 Feet BGS

DRILLING METHOD: GeoProbe

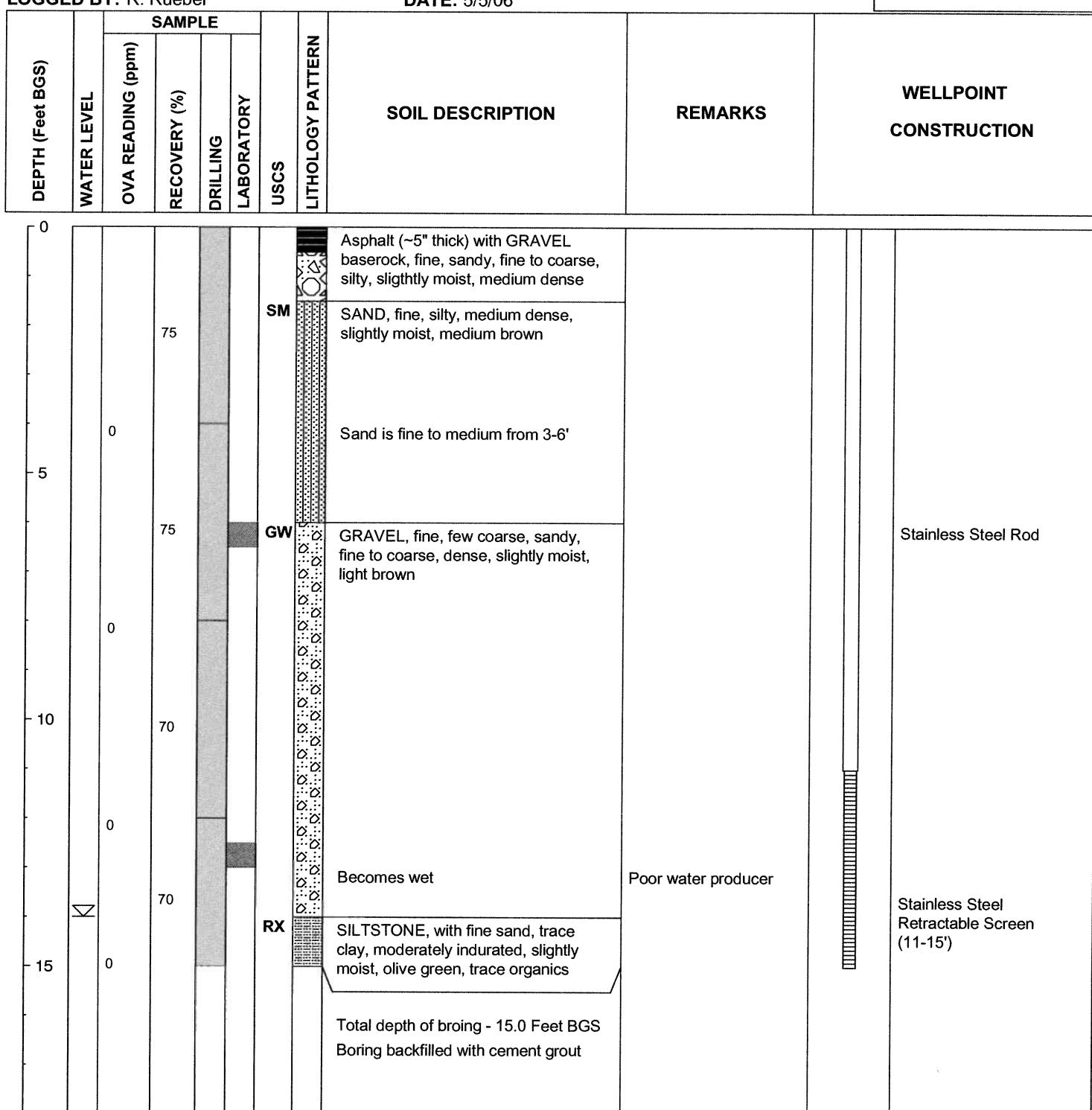
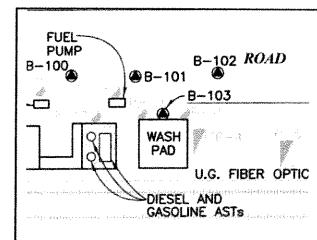
DEPTH TO FIRST WATER: ~14.0 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 11.0-15.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-103

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 15.0 / 16.0 Feet BGS

DRILLING METHOD: GeoProbe

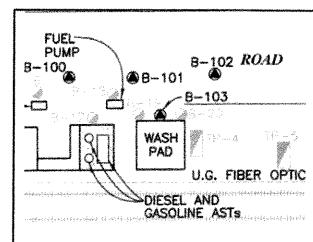
DEPTH TO FIRST WATER: ~14.0 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06



DEPTH (Feet BGS)	SAMPLE					SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
	WATER LEVEL	OVA READING (ppm)	RECOVERY (%)	DRILLING	LABORATORY			
				USCS	LITHOLOGY PATTERN			
0						Asphalt (~5" thick) with GRAVEL baserock, fine, sandy, fine to coarse, slightly moist, dense, medium brown		
0	70					SAND, fine, silty, medium dense, slightly moist, medium brown		
0						Sand is fine to medium from 3-6'		
5								
7.5	75			ML		SILT, sandy, fine, soft, moist, dark brown		
10								
10	60			GW		GRAVEL, fine, few coarse, rounded, sandy, fine to coarse, trace silt, dense, slightly moist, light brown		
12.5								
12.5	70					Becomes wet	Poor water producer	
15	0					Total depth of boring - 15.0 Feet BGS Boring backfilled with cement grout		



Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-104

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION:~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT:12.0 / 16.0 Feet BGS

DRILLING METHOD: GeoProbe

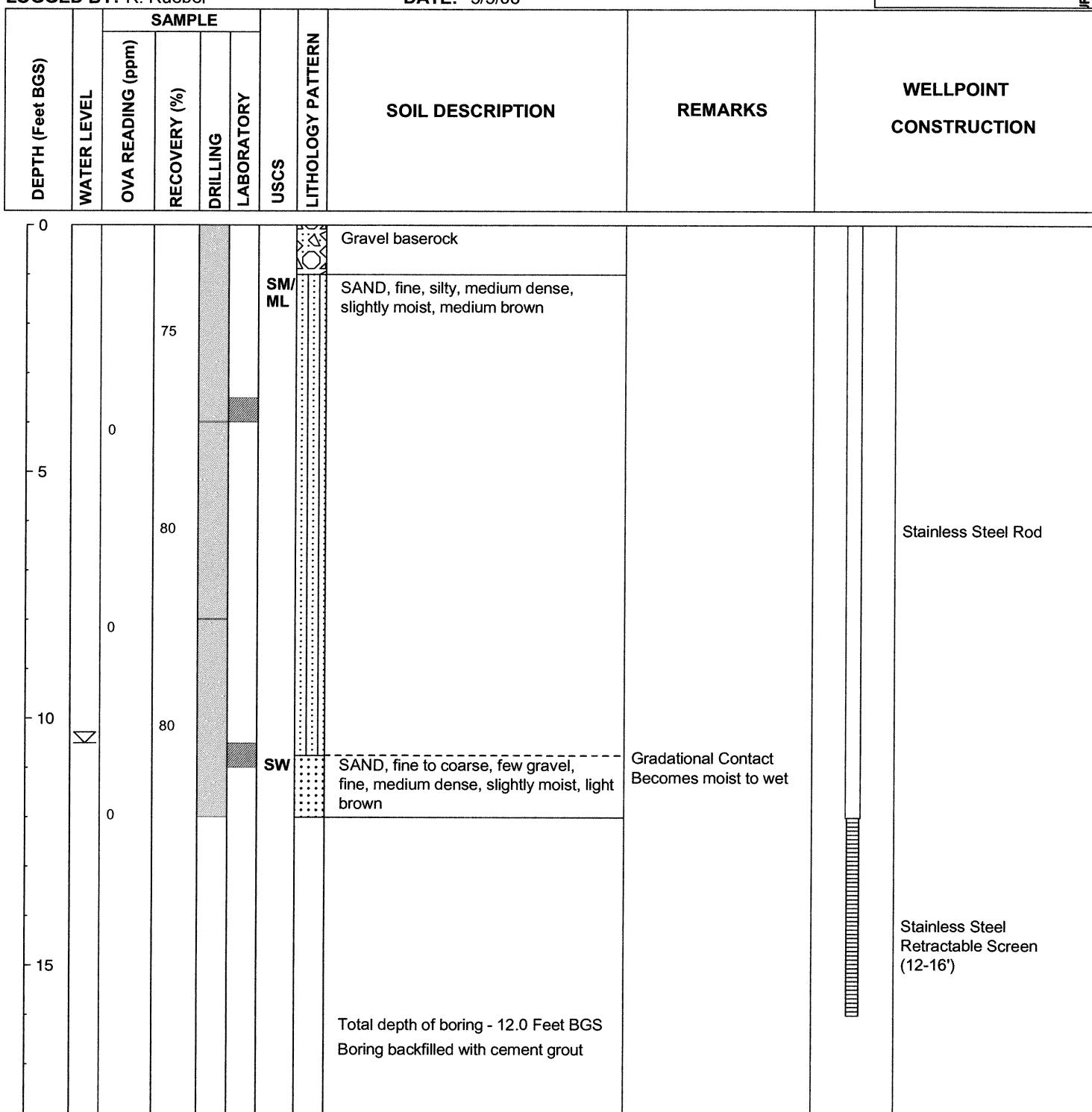
DEPTH TO FIRST WATER: ~10.5 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-105

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 12.0 / 16.0 Feet BGS

DRILLING METHOD: GeoProbe

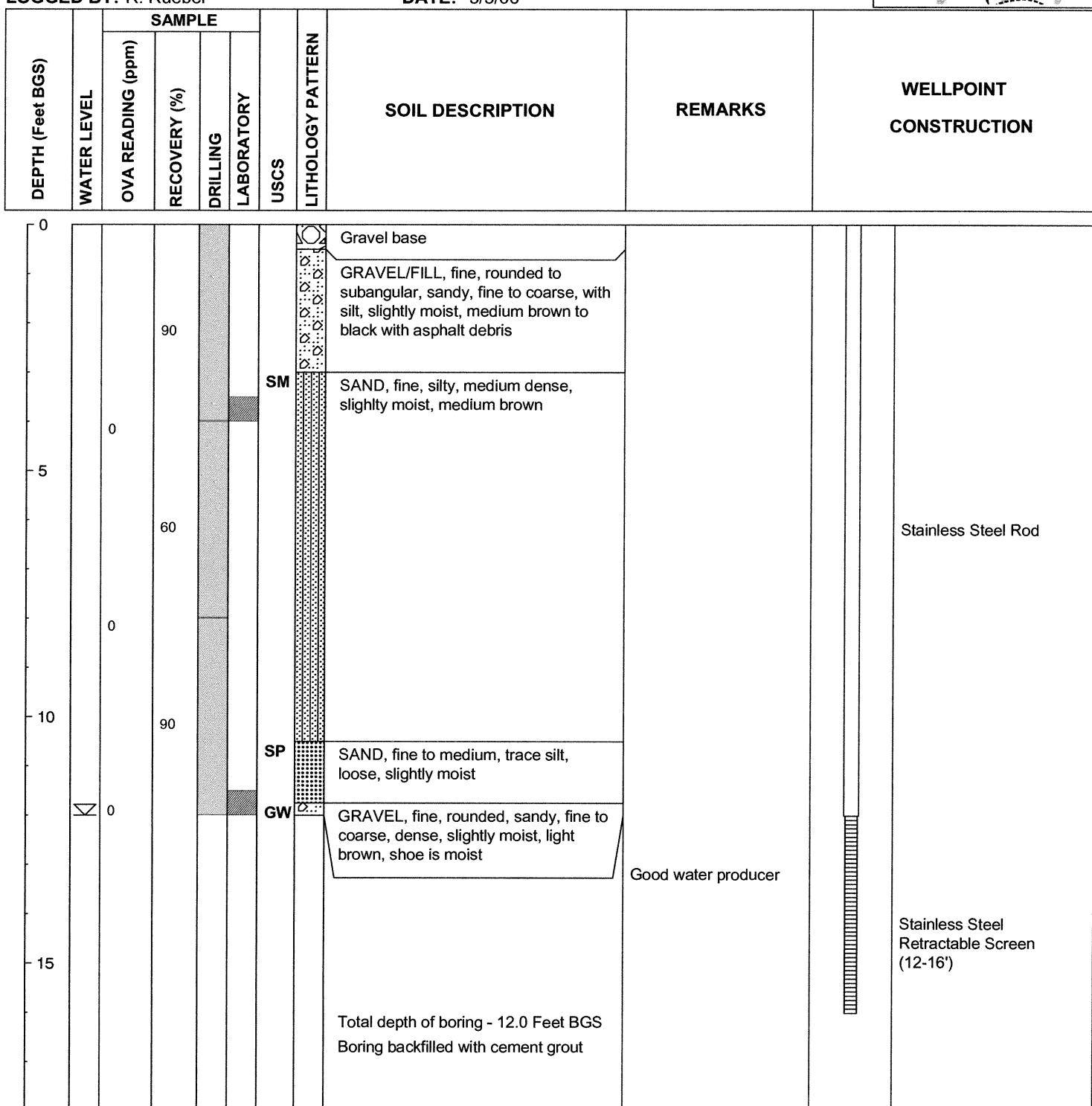
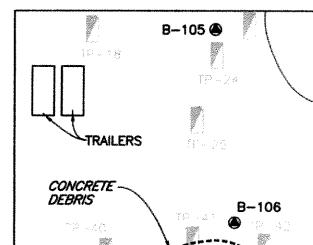
DEPTH TO FIRST WATER: ~12.0 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-106

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT: 8.0/ 16.0 Feet BGS

DRILLING METHOD: GeoProbe

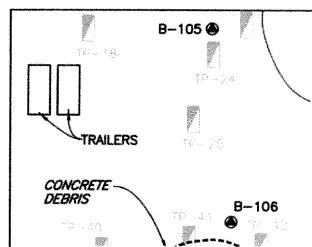
DEPTH TO FIRST WATER: ~12.2 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12 0-16 0 Feet BGS

LOGGED BY: R Rueber

DATE: 5/5/06



LOGGED BY: R. Ruebel		DATE: 3/3/06								
DEPTH (Feet BGS)	WATER LEVEL	SAMPLE		USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION		
		OVA READING (ppm)	RECOVERY (%)							
DEPTH (Feet BGS)	WATER LEVEL	OVA READING (ppm)	RECOVERY (%)	DRILLING	LABORATORY	USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELLPOINT CONSTRUCTION
0								GRAVEL/FILL, fine to coarse, sandy, fine to coarse, light grey to med black, asphalt debris		
0		70	0			SM		SAND, fine, silty, medium dense, slightly moist, medium brown		
5						GW		GRAVEL, fine, sandy, fine to coarse, silty, loose, wet, dark brown		
5		70	0			ML		SILT, with sand, fine, slightly moist, dark brown		
5		70	0			SM		SAND, fine, silty, medium dense, slightly moist, medium brown	Gradational Contact	
10									Drive to 16' BGS and open screen	
10									Soft-easy push 10-12' BGS	
15										Stainless Steel Retractable Screen (12-16')
								Total depth of boring - 8.0 Feet BGS Boring backfilled with cement grout		



Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-107

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION:~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT:12.0/ 19.0 Feet BGS

DRILLING METHOD: GeoProbe

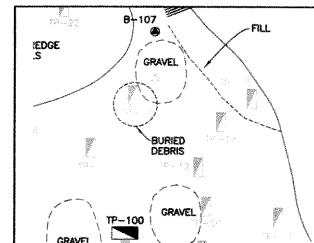
DEPTH TO FIRST WATER: --

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 & 16.0-20.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELLPOINT LOG

B-108

PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION:~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT:12.0/ 16.0 Feet BGS

DRILLING METHOD: GeoProbe

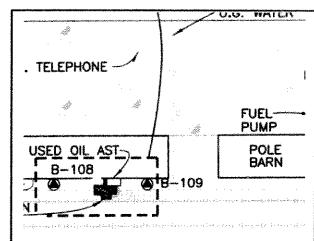
DEPTH TO FIRST WATER: ~13.0 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06





PROJ. NAME: Granite Const. Ukiah Hot Plant

LOCATION: Ukiah, CA

PROJ. NUMBER: 001133.207

GROUND ELEVATION: ~640 Feet (NAVD 1988)

DRILLER: Fisch Drilling

DEPTH OF BORING/WELLPOINT:12.0/ 16.0 Feet BGS

DRILLING METHOD: GeoProbe

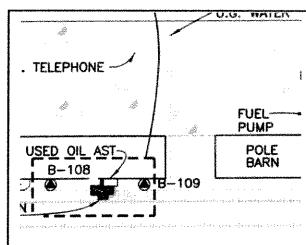
DEPTH TO FIRST WATER: ~13.0 Feet BGS

SAMPLER TYPE: Macro Core

SCREEN INTERVAL: 12.0-16.0 Feet BGS

LOGGED BY: R. Rueber

DATE: 5/5/06





Consulting Engineers & Geologists, Inc.

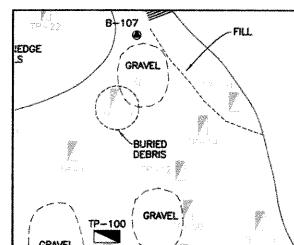
812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

PROJ. NAME: Granite Const. Ukiah Hot Plant
PROJ. NUMBER: 001133.207
LOCATION: Ukiah, CA
EXCAVATION METHOD: Backhoe
SAMPLER TYPE: Grab

GROUND ELEVATION: ~ 640 Feet (NAVD 1988)
DEPTH OF EXCAVATION: 5.5 Feet BGS
LOGGED BY: R. Rueber
DEPTH TO FIRST WATER:--
DATE: 5/4/06

TEST PIT LOG

TP-100



DEPTH (Feet BGS)	WATER LEVEL	OVA READING (ppm)	LABORATORY	USCS	SOIL DESCRIPTION		REMARKS
					LITHOLOGY PATTERN		
0					FILL/GRAVEL, fine, with sand, fine, medium dense, slightly moist, medium grey		
1			ML		FILL/SILT, with clay, with gravel, with sand, fine, dense, slightly moist, medium brown to medium grey, wth asphalt debris		
2							
3							
4	0			SM	SAND, fine, silty, medium dense, slightly moist, medium brown		
5	0						
6					Total Depth of Excavation = 5.5 Feet BGS		
7					Excavation backfilled and compacted with spoils		



Consulting Engineers & Geologists, Inc.

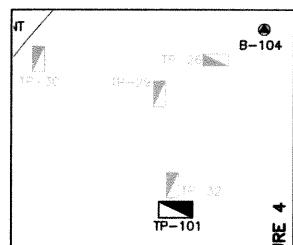
812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

TEST PIT LOG

TP-101

PROJ. NAME: Granite Const. Ukiah Hot Plant
PROJ. NUMBER: 001133.207
LOCATION: Ukiah, CA
EXCAVATION METHOD: Backhoe
SAMPLER TYPE: Grab

GROUND ELEVATION: ~640 Feet (NAVD 1988)
DEPTH OF EXCAVATION: 6.0 Feet BGS
LOGGED BY: R. Rueber
DEPTH TO FIRST WATER:--
DATE: 5/4/06



DEPTH (Feet BGS)	WATER LEVEL	OVA READING (ppm)	LABORATORY	USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS
0						FILL/GRAVEL	
1	0					FILL/SILT, with clay, stiff, slightly moist, mottled medium brown to dark grey, few wood and asphalt debris	
2							
3			ML			SILT, with clay, with sand, fine, stiff, slightly moist, medium brown	Undulatory Contact
4							
5			SM			SAND, fine silty, medium dense, slightly moist, medium brown	Gradational Contact
6	0		SW			SAND, fine to coarse, with gravel, coarse, few cobbles up to 6", medium dense, slightly moist, medium brown	Gradational Contact
7						Total Depth of Excavation = 6.0 Feet BGS	

Client Name:

GRANITE CONSTRUCTION UKIAH HOT PLANT

The water from your site:

**4201 NORTH STATE STREET, UKIAH,
CA; RWQCB CASE #1NMC545**

SHN ref #

001133.207

Collected On:

12/12/2005

Has been tested and certified as acceptable to be discharged into the City of Eureka municipal sewer system.

Amount Discharged:

20 GALLONS

Date Discharged:

6/6/2006

Certified by:

AARON MELODY

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

City of Eureka Wastewater Discharge Permit #65

Client Name:

GRANITE CONSTRUCTION UKIAH HOT PLANT

The water from your site:

**4201 NORTH STATE STREET, UKIAH,
CA; RWQCB CASE #1NMC545**

SHN ref #

001133.207

Collected On:

5/5/2006

Has been tested and certified as acceptable to be discharged into the City of Eureka municipal sewer system.

Amount Discharged:

5 GALLONS

Date Discharged:

6/6/2006

Certified by:

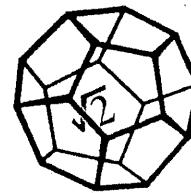
AARON MELODY

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

City of Eureka Wastewater Discharge Permit #65

Attachment 3

Laboratory Analytical Report



NORTH COAST
LABORATORIES LTD.

May 25, 2006

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Attn: Roland Rueber

RE: 001133.207 GRANITE UKIAH

Order No.: 0605173
Invoice No.: 58391
PO No.:
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction Client Sample Description

01A B-101
01D B-101
02A B-102
02D B-102
03A B-103
03D B-103
04A B-104
04D B-104
05A B-105
05D B-105
06A B-106
06D B-106
07A B-108
07D B-108
08A B-109
08D B-109
09A TP-100@5'
10A TP-101@5.5'
11A B-100@6'
12A B-100@11.5'
13A B-101@7'
14A B-101@11.5'
15A B-102 @6'
16A B-102@12.5'
17A B-103@5.75'
18A B-103@13.5'
19A B-104@3.5'
20A B-104@10.5'

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Colleen Blackstone

Laboratory Supervisor(s)

T. Shew

QA Unit



Jesse G. Chaney, Jr.
Laboratory Director

May 26, 2006

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Order No.: 0605173
Invoice No.: 58391
PO
ELAP No. 1247-Expires July 2006

Attn: Roland Rueber

RE: 001133.207 GRANITE UKIAH

SAMPLE IDENTIFICATION

21A	B-105@3.5'
22A	B-105@11.5'
23A	B-106@3.5'
24A	B-106@7.5'
25A	B-107@3.5'
26A	B-107@11.5'
27A	B-108@3.5'
28A	B-108@7.5'
29A	B-109@3.5'
30A	B-109@9.5'
31A	EX1-1@7.5'
32A	EX1-2@3'
33A	EX1-3@4'

CLIENT: SHN Consulting Engineers and Geologists
Project: 001133.207 GRANITE UKIAH
Lab Order: 0605173

CASE NARRATIVE**TPH as Gasoline - Water:**

Samples B-101, B-102 and B-104 do not present a peak pattern consistent with that of gasoline. The peaks elute towards the end of the gasoline range. In our judgement the material appears to be a product heavier than gasoline. Due to the differences in the purging efficiency of these heavier materials the results may be variable. The reported results represent the amount of material in the gasoline range.

BTEX - Water:

The surrogate recoveries for samples B-101 and B-105 were below the lower acceptance limit. The response of the reporting limit standard was such that the target analytes would have been detected even with the low recoveries; therefore, the data were accepted.

The surrogate recovery for sample B-103 was above the upper acceptance limit. This recovery indicates that the sample results may be erroneously high.

The laboratory control sample (LCS) recovery was above the upper acceptance limit for MTBE. This recovery indicates that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

TPH as Diesel/Motor Oil - Water:

Samples B-101, B-102, B-103, B-104, B-105, B-106 and B-109 contain material similar to degraded or weathered diesel oil.

Sample B-101 does not have the typical pattern of fresh motor oil. However, the result reported represents the amount of material in the motor oil range.

BTEX - Soil:

Some reporting limits were raised for samples EX1-1@7.5' and EX1-3@4' due to matrix interference.

TPH as Gasoline - Soil:

Sample B-108@3.5' does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

Sample EX1-3@4' does not present a peak pattern consistent with that of gasoline. The peaks elute towards the end of the gasoline range. In our judgement the material appears to be a product heavier than gasoline. Due to the differences in the purging efficiency of these heavier materials the results may be variable. The reported result represents the amount of material in the gasoline range.

TPH as Diesel/Motor Oil - Soil:

Samples TP-100@5', B-102 @6', B-108@3.5', B-109@3.5' and EX1-3@4' contain material similar to

CLIENT: SHN Consulting Engineers and Geologists
Project: 001133.207 GRANITE UKIAH
Lab Order: 0605173

CASE NARRATIVE

degraded or weathered diesel oil.

Date: 25-May-06
WorkOrder: 0605173

ANALYTICAL REPORT

Client Sample ID: B-101
Lab ID: 0605173-01A

Received: 5/8/06

Collected: 5/5/06 9:20

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	84.4	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	82	50	µg/L	1.0		5/13/06

Client Sample ID: B-101

Received: 5/8/06

Collected: 5/5/06 9:20

Lab ID: 0605173-01D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	3,300,000	50,000	µg/L	1,000	5/10/06	5/15/06
TPHC Motor Oil	400,000	170,000	µg/L	1,000	5/10/06	5/15/06

Client Sample ID: B-102

Received: 5/8/06

Collected: 5/5/06 9:50

Lab ID: 0605173-02A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	97.5	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	100	50	µg/L	1.0		5/13/06

Date: 25-May-06
WorkOrder: 0605173

ANALYTICAL REPORT

Client Sample ID: B-102
Lab ID: 0605173-02D

Received: 5/8/06

Collected: 5/5/06 9:50

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	1,700	1,200	µg/L	25	5/10/06	5/12/06
TPHC Motor Oil	4,600	4,200	µg/L	25	5/10/06	5/12/06

Client Sample ID: B-103
Lab ID: 0605173-03A

Received: 5/8/06

Collected: 5/5/06 10:50

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	0.65	0.50	µg/L	1.0		5/13/06
Toluene	0.57	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	121	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/13/06

Client Sample ID: B-103
Lab ID: 0605173-03D

Received: 5/8/06

Collected: 5/5/06 10:50

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	240	50	µg/L	1.0	5/10/06	5/11/06
TPHC Motor Oil	2,400	1,700	µg/L	10	5/10/06	5/12/06

Date: 25-May-06
WorkOrder: 0605173

ANALYTICAL REPORT

Client Sample ID: B-104
Lab ID: 0605173-04A

Received: 5/8/06

Collected: 5/5/06 11:35

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	101	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	110	50	µg/L	1.0		5/13/06

Client Sample ID: B-104

Received: 5/8/06

Collected: 5/5/06 11:35

Lab ID: 0605173-04D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	270	50	µg/L	1.0	5/10/06	5/11/06
TPHC Motor Oil	13,000	4,200	µg/L	25	5/10/06	5/16/06

Client Sample ID: B-105

Received: 5/8/06

Collected: 5/5/06 12:10

Lab ID: 0605173-05A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	80.8	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/13/06

Date: 25-May-06
WorkOrder: 0605173

ANALYTICAL REPORT

Client Sample ID: B-105
Lab ID: 0605173-05D

Received: 5/8/06

Collected: 5/5/06 12:10

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	82	50	µg/L	1.0	5/10/06	5/11/06
TPHC Motor Oil	4,300	4,200	µg/L	25	5/10/06	5/12/06

Client Sample ID: B-106
Lab ID: 0605173-06A

Received: 5/8/06

Collected: 5/5/06 12:45

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	93.1	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/13/06

Client Sample ID: B-106
Lab ID: 0605173-06D

Received: 5/8/06

Collected: 5/5/06 12:45

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	68	50	µg/L	1.0	5/10/06	5/11/06
TPHC Motor Oil	2,200	340	µg/L	2.0	5/10/06	5/16/06

Date: 25-May-06
WorkOrder: 0605173

ANALYTICAL REPORT

Client Sample ID: B-108
Lab ID: 0605173-07A

Received: 5/8/06

Collected: 5/5/06 14:15

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	85.3	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/13/06

Client Sample ID: B-108

Received: 5/8/06

Collected: 5/5/06 14:15

Lab ID: 0605173-07D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/10/06	5/11/06
TPHC Motor Oil	1,200	170	µg/L	1.0	5/10/06	5/11/06

Client Sample ID: B-109

Received: 5/8/06

Collected: 5/5/06 14:45

Lab ID: 0605173-08A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/13/06
Benzene	ND	0.50	µg/L	1.0		5/13/06
Toluene	ND	0.50	µg/L	1.0		5/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/13/06
o-Xylene	ND	0.50	µg/L	1.0		5/13/06
Surrogate: Cis-1,2-Dichloroethylene	94.4	85-115	% Rec	1.0		5/13/06

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/13/06

Date: 25-May-06
WorkOrder: 0605173

ANALYTICAL REPORT

Client Sample ID: B-109
Lab ID: 0605173-08D

Received: 5/8/06

Collected: 5/5/06 14:45

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	55	50	µg/L	1.0	5/10/06	5/11/06
TPHC Motor Oil	890	170	µg/L	1.0	5/10/06	5/11/06

Client Sample ID: TP-100@5'
Lab ID: 0605173-09A

Received: 5/8/06

Collected: 5/4/06 0:00

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	0.010	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	97.3	71.8-135	% Rec	1.0	5/15/06	5/17/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	10	10	µg/g	10	5/11/06	5/18/06
TPHC Motor Oil	150	100	µg/g	10	5/11/06	5/18/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: TP-101@5.5'

Received: 5/8/06

Collected: 5/4/06 0:00

Lab ID: 0605173-10A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	97.0	71.8-135	% Rec	1.0	5/15/06	5/17/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/16/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/16/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-100@6'

Received: 5/8/06

Collected: 5/5/06 8:00

Lab ID: 0605173-11A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	95.0	71.8-135	% Rec	1.0	5/15/06	5/17/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/16/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/16/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-100@11.5'

Received: 5/8/06

Collected: 5/5/06 8:10

Lab ID: 0605173-12A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	97.4	71.8-135	% Rec	1.0	5/15/06	5/17/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/16/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/16/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-101@7'

Received: 5/8/06

Collected: 5/5/06 9:00

Lab ID: 0605173-13A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	95.2	71.8-135	% Rec	1.0	5/15/06	5/17/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/16/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/16/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-101@11.5'

Received: 5/8/06

Collected: 5/5/06 9:10

Lab ID: 0605173-14A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	96.8	71.8-135	% Rec	1.0	5/15/06	5/17/06

Page 8 of 19

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/16/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/16/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-102 @6'

Received: 5/8/06

Collected: 5/5/06 9:35

Lab ID: 0605173-15A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	101	71.8-135	% Rec	1.0	5/15/06	5/17/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	4.3	1.0	µg/g	1.0	5/11/06	5/18/06
TPHC Motor Oil	130	100	µg/g	10	5/11/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-102@12.5'

Received: 5/8/06

Collected: 5/5/06 9:45

Lab ID: 0605173-16A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	99.8	71.8-135	% Rec	1.0	5/15/06	5/17/06

Page 9 of 19

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/17/06
TPHC Motor Oil	12	10	µg/g	1.0	5/11/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-103@5.75'

Received: 5/8/06

Collected: 5/5/06 10:35

Lab ID: 0605173-17A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	98.1	71.8-135	% Rec	1.0	5/15/06	5/17/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/17/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-103@13.5'

Received: 5/8/06

Collected: 5/5/06 10:40

Lab ID: 0605173-18A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/15/06	5/17/06
Benzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Toluene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
o-Xylene	ND	0.0050	µg/g	1.0	5/15/06	5/17/06
Surrogate: Cis-1,2-Dichloroethylene	99.2	71.8-135	% Rec	1.0	5/15/06	5/17/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/17/06
TPHC Motor Oil	25	10	µg/g	1.0	5/11/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/15/06	5/17/06

Client Sample ID: B-104@3.5'

Received: 5/8/06

Collected: 5/5/06 11:25

Lab ID: 0605173-19A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/18/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Surrogate: Cis-1,2-Dichloroethylene	92.8	71.8-135	% Rec	1.0	5/18/06	5/18/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/17/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/17/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/18/06

Client Sample ID: B-104@10.5'

Received: 5/8/06

Collected: 5/5/06 11:30

Lab ID: 0605173-20A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/18/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Surrogate: Cis-1,2-Dichloroethylene	93.1	71.8-135	% Rec	1.0	5/18/06	5/18/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/18/06

Client Sample ID: B-105@3.5'

Received: 5/8/06

Collected: 5/5/06 12:00

Lab ID: 0605173-21A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/18/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Surrogate: Cis-1,2-Dichloroethylene	90.2	71.8-135	% Rec	1.0	5/18/06	5/18/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	12	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/18/06

Client Sample ID: B-105@11.5'

Received: 5/8/06

Collected: 5/5/06 12:05

Lab ID: 0605173-22A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/18/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Surrogate: Cis-1,2-Dichloroethylene	92.9	71.8-135	% Rec	1.0	5/18/06	5/18/06

Date: 25-May-06
WorkOrder: 0605173
Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/18/06

Client Sample ID: B-106@3.5'

Received: 5/8/06

Collected: 5/5/06 12:35

Lab ID: 0605173-23A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/18/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Surrogate: Cis-1,2-Dichloroethylene	91.4	71.8-135	% Rec	1.0	5/18/06	5/18/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/18/06

Client Sample ID: B-106@7.5'

Received: 5/8/06

Collected: 5/5/06 12:40

Lab ID: 0605173-24A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/18/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/18/06
Surrogate: Cis-1,2-Dichloroethylene	90.9	71.8-135	% Rec	1.0	5/18/06	5/18/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/18/06

Client Sample ID: B-107@3.5'

Received: 5/8/06

Collected: 5/5/06 13:10

Lab ID: 0605173-25A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	95.6	71.8-135	% Rec.	1.0	5/18/06	5/19/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: B-107@11.5'

Received: 5/8/06

Collected: 5/5/06 13:15

Lab ID: 0605173-26A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	93.5	71.8-135	% Rec.	1.0	5/18/06	5/19/06

Date: 25-May-06
WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/20/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: B-108@3.5'

Received: 5/8/06

Collected: 5/5/06 14:05

Lab ID: 0605173-27A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	92.3	71.8-135	% Rec	1.0	5/18/06	5/19/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	5.9	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	170	100	µg/g	10	5/11/06	5/23/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1.1	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: B-108@7.5'

Received: 5/8/06

Collected: 5/5/06 14:10

Lab ID: 0605173-28A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	91.8	71.8-135	% Rec	1.0	5/18/06	5/19/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/22/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/22/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: B-109@3.5'

Received: 5/8/06

Collected: 5/5/06 14:35

Lab ID: 0605173-29A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	85.5	71.8-135	% Rec	1.0	5/18/06	5/19/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	14	1.0	µg/g	1.0	5/11/06	5/20/06
TPHC Motor Oil	170	100	µg/g	10	5/11/06	5/23/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: B-109@9.5'

Received: 5/8/06

Collected: 5/5/06 14:40

Lab ID: 0605173-30A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	92.7	71.8-135	% Rec	1.0	5/18/06	5/19/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/22/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/22/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: EX1-1@7.5'

Received: 5/8/06

Collected: 5/4/06 14:35

Lab ID: 0605173-31A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.015	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	90.7	71.8-135	% Rec	1.0	5/18/06	5/19/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/22/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/22/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: EX1-2@3'

Received: 5/8/06

Collected: 5/4/06 15:00

Lab ID: 0605173-32A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	89.0	71.8-135	% Rec	1.0	5/18/06	5/19/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Diesel/Motor Oil

ANALYTICAL REPORT

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	1.0	µg/g	1.0	5/11/06	5/22/06
TPHC Motor Oil	ND	10	µg/g	1.0	5/11/06	5/22/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	5/18/06	5/19/06

Client Sample ID: EX1-3@4'

Received: 5/8/06

Collected: 5/4/06 14:30

Lab ID: 0605173-33A

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	5/18/06	5/19/06
Benzene	ND	0.0050	µg/g	1.0	5/18/06	5/19/06
Toluene	0.014	0.0050	µg/g	1.0	5/18/06	5/19/06
Ethylbenzene	0.0058	0.0050	µg/g	1.0	5/18/06	5/19/06
m,p-Xylene	0.012	0.0050	µg/g	1.0	5/18/06	5/19/06
o-Xylene	ND	0.030	µg/g	1.0	5/18/06	5/19/06
Surrogate: Cis-1,2-Dichloroethylene	88.3	71.8-135	% Rec	1.0	5/18/06	5/19/06

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	1,100	100	µg/g	100	5/11/06	5/23/06
TPHC Motor Oil	7,400	1,000	µg/g	100	5/11/06	5/23/06

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	190	20	µg/g	20	5/18/06	5/19/06

Client Sample ID: Trip Blank

Received: 5/8/06

Collected: 5/5/06 0:00

Lab ID: 0605173-34A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		5/12/06
Benzene	ND	0.50	µg/L	1.0		5/12/06
Toluene	ND	0.50	µg/L	1.0		5/12/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/12/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/12/06
o-Xylene	ND	0.50	µg/L	1.0		5/12/06
Surrogate: Cis-1,2-Dichloroethylene	91.0	85-115	% Rec	1.0		5/12/06

Date: 25-May-06

WorkOrder: 0605173

Test Name: TPH as Gasoline

ANALYTICAL REPORT

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		5/12/06

Page 19 of 19

North Coast Laboratories, Ltd.

Date: 25-May-06

CLIENT: SHN Consulting Engineers and Geologists

Work Order: 0605173

Project: 0011133.207 GRANITE UKIAH

QC SUMMARY REPORT

Method Blank

Sample ID	MB-15701	Batch ID:	15701	Test Code:	BTXES	Units:	µg/g	Analysis Date	5/16/06 1:39:14 PM	Prep Date	5/15/06	
Client ID:		Run ID:		Run ID:	ORGCB_060516F			SeqNo:	593332			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
MTBE	ND	0.050										
Benzene	ND	0.0050										
Toluene	0.003736	0.0050										J
Ethylbenzene	ND	0.0050										
m,p-Xylene	ND	0.0050										
o-Xylene	ND	0.0050										
Cis-1,2-Dichloroethylene	1.02	0.10	1.00	0	102%	72	135	0				
Sample ID	MB-15740	Batch ID:	15740	Test Code:	BTXES	Units:	µg/g	Analysis Date	5/18/06 8:20:59 PM	Prep Date	5/18/06	
Client ID:		Run ID:		Run ID:	ORGCB_060518B			SeqNo:	593784			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
MTBE	ND	0.050										
Benzene	ND	0.0050										
Toluene	0.00356	0.0050										J
Ethylbenzene	ND	0.0050										
m,p-Xylene	ND	0.0050										
o-Xylene	ND	0.0050										
Cis-1,2-Dichloroethylene	0.936	0.10	1.00	0	93.6%	72	135	0				

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limitsS - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0605173
Project: 001133.207 GRANITE UKLAH

QC SUMMARY REPORT

Method Blank

Sample ID	MB-5/12/06	Batch ID:	R41264	Test Code:	BTXEW	Units:	µg/L	Analysis Date:	5/12/06 6:49:58 PM	Prep Date
Client ID:			Run ID:	ORGCS_060512B				SeqNo:	592241	
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD
MTBE		ND	3.0							
Benzene		ND	0.50							J
Toluene		0.1110	0.50							
Ethylbenzene		ND	0.50							J
m,p-Xylene		0.2132	0.50							
o-Xylene		ND	0.50							
Cis-1,2-Dichloroethylene		0.919	0.10	1.00		0	91.9%	85	115	0
Sample ID	MB-15701	Batch ID:	15701	Test Code:	TPHCGS	Units:	µg/g	Analysis Date	5/16/06 1:39:14 PM	Prep Date
Client ID:			Run ID:	ORGCS_060515B				SeqNo:	593068	
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD
TPHC Gas (C6-C14)		0.3871	1.0							J
Sample ID	MB-15740	Batch ID:	15740	Test Code:	TPHCGS	Units:	µg/g	Analysis Date	5/18/06 8:20:59 PM	Prep Date
Client ID:			Run ID:	ORGCS_060518A				SeqNo:	593749	
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD
TPHC Gas (C6-C14)		0.3626	1.0							J
Sample ID	MB-5/12/06	Batch ID:	R41263	Test Code:	TPHCGW	Units:	µg/L	Analysis Date	5/12/06 6:49:58 PM	Prep Date
Client ID:			Run ID:	ORGCB_060512A				SeqNo:	592218	
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD
TPHC Gas (C6-C14)		ND	50							

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0605173
Project: 001133.207 GRANITE UKIAH

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date
MB-15679	15679	TPHDMS	µg/g	5/16/06 10:08:07 PM	5/11/06
Client ID:		Run ID:	ORGCT_060516B	SeqNo:	593405
Analyte		Result	Limit	% Rec	LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual
TPHC Diesel (C12-C22)	ND	1.0			
TPHC Motor Oil	6.425	10			
MB-15680	15680	TPHDMS	µg/g	5/20/06 2:33:21 PM	5/11/06
Client ID:		Run ID:	ORGCT_060520A	SeqNo:	594233
Analyte		Result	Limit	% Rec	LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual
TPHC Diesel (C12-C22)	ND	1.0			
TPHC Motor Oil	ND	10			
MB-15675	15675	TPHDMMW	µg/L	5/11/06 6:56:34 PM	5/10/06
Client ID:		Run ID:	ORGCT_060511A	SeqNo:	592320
Analyte		Result	Limit	% Rec	LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual
TPHC Diesel (C12-C22)	27.87	50			
TPHC Motor Oil	ND	170			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 25-May-06

CLIENT: SHN Consulting Engineers and Geologists

Work Order: 0605173

Project: 001133.207 GRANITE UKLAH

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-15701	Batch ID:	15701	Test Code:	BTXES	Units:	µg/g	Run ID:	ORG/C8_060516F	% Rec	SPK value	SPK Ref Val	Analysis Date	5/16/06 9:27:28 AM	Prep Date	5/15/06		
Client ID:													SeqNo:	593329				
Analyte				Result	Limit	SPK value	SPK Ref Val			% Rec			LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
MTBE				0.4110	0.050	0.400	0			103%	75	124	0					
Benzene				0.05172	0.0050	0.0500	0			103%	80	128	0					
Toluene				0.05498	0.0050	0.0500	0			110%	85	126	0					
Ethylbenzene				0.05388	0.0050	0.0500	0			108%	80	126	0					
m,p-Xylene				0.1025	0.0050	0.100	0			102%	84	130	0					
o-Xylene				0.05345	0.0050	0.0500	0			107%	84	125	0					
Cis-1,2-Dichloroethylene				1.05	0.10	1.00	0			105%	72	135	0					
Sample ID	LCS-D-15701	Batch ID:	15701	Test Code:	BTXES	Units:	µg/g	Run ID:	ORG/C8_060516F	% Rec	SPK value	SPK Ref Val	Analysis Date	5/16/06 10:02:57 AM	Prep Date	5/15/06		
Client ID:													SeqNo:	593330				
Analyte				Result	Limit	SPK value	SPK Ref Val			% Rec			LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
MTBE				0.4196	0.050	0.400	0			105%	75	124	0.411	2.07%	15			
Benzene				0.05258	0.0050	0.0500	0			105%	80	128	0.0517	1.67%	15			
Toluene				0.05586	0.0050	0.0500	0			112%	85	126	0.0550	1.58%	15			
Ethylbenzene				0.05473	0.0050	0.0500	0			109%	80	126	0.0539	1.56%	15			
m,p-Xylene				0.1031	0.0050	0.100	0			103%	84	130	0.102	0.611%	15			
o-Xylene				0.05340	0.0050	0.0500	0			107%	84	125	0.0534	0.0835%	15			
Cis-1,2-Dichloroethylene				1.13	0.10	1.00	0			113%	72	135	1.05	7.65%	15			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0605173
Project: 001133.207 GRANITE UKIAH

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID	Batch ID:	Test ID:	Test Code:	Units:	Analysis Date	Prep Date						
Client ID:			Run ID:	µg/g	SeqNo:	5/18/06 4:14:40 PM						
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
MTBE		0.3882	0.050	0.400	0	97.0%	75	124		0		
Benzene		0.04891	0.0050	0.0500	0	97.8%	80	128		0		
Toluene		0.05482	0.0050	0.0500	0	110%	85	126		0		
Ethylbenzene		0.05262	0.0050	0.0500	0	105%	80	126		0		
m,p-Xylene		0.1020	0.0050	0.100	0	102%	84	130		0		
o-Xylene		0.05214	0.0050	0.0500	0	104%	84	125		0		
Cis-1,2-Dichloroethylene		1.03	0.10	1.00	0	103%	72	135		0		
Sample ID	Batch ID:	Test ID:	Test Code:	Units:	Analysis Date	Prep Date						
Client ID:			Run ID:	µg/g	SeqNo:	5/18/06 4:50:01 PM						
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
MTBE		0.4026	0.050	0.400	0	101%	75	124	0.388	3.64%	15	
Benzene		0.04856	0.0050	0.0500	0	97.1%	80	128	0.0489	0.718%	15	
Toluene		0.05314	0.0050	0.0500	0	106%	85	126	0.0548	3.11%	15	
Ethylbenzene		0.05225	0.0050	0.0500	0	104%	80	126	0.0526	0.711%	15	
m,p-Xylene		0.09889	0.0050	0.100	0	98.9%	84	130	0.102	3.08%	15	
o-Xylene		0.05060	0.0050	0.0500	0	101%	84	125	0.0521	2.99%	15	
Cis-1,2-Dichloroethylene		0.997	0.10	1.00	0	99.7%	72	135	1.03	3.39%	15	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0605173
Project: 001133.207 GRANITE UKLAH

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date					
Client ID:		Run ID:	µg/L	SeqNo:						
Analyte		Result	SPK value	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
					S					
MTBE		46.29	3.0	40.0	0	116%	85	115	0	
Benzene		5.084	0.50	5.00	0	102%	85	115	0	
Toluene		5.184	0.50	5.00	0	104%	85	115	0	
Ethylbenzene		5.324	0.50	5.00	0	106%	85	115	0	
m,p-Xylene		10.79	0.50	10.0	0	108%	85	115	0	
o-Xylene		5.351	0.50	5.00	0	107%	85	115	0	
Cis-1,2-Dichloroethylene		1.03	0.10	1.00	0	103%	85	115	0	
Sample ID	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date					
LCSD-06287	R41264	BTXEW	µg/L	5/13/06 1:13:28 AM						
Client ID:		Run ID:	ORGC8_060512B	SeqNo:						
Analyte		Result	SPK value	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE		42.30	3.0	40.0	0	106%	85	115	46.3	9.02%
Benzene		5.156	0.50	5.00	0	103%	85	115	5.08	1.41%
Toluene		5.187	0.50	5.00	0	104%	85	115	5.18	0.0541%
Ethylbenzene		5.333	0.50	5.00	0	107%	85	115	5.32	0.1711%
m,p-Xylene		10.81	0.50	10.0	0	108%	85	115	10.8	0.0992%
o-Xylene		5.345	0.50	5.00	0	107%	85	115	5.35	0.1222%
Cis-1,2-Dichloroethylene		1.08	0.10	1.00	0	108%	85	115	1.03	4.65%
Sample ID	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date					
LCs-15701-G	15701	TPHCGS	µg/g	5/16/06 11:15:26 AM						
Client ID:		Run ID:	ORGC8_060515B	SeqNo:						
Analyte		Result	SPK value	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)		10.41	1.0	10.0	0	104%	102	128	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analytic detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
 Work Order: 0605173
 Project: 001133.207 GRANITE UKIAH

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID	Batch ID:	Test ID:	Test Code:	Units:	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
Sample ID LCSD-15701-G	Batch ID: 15701	Test ID: TPHCGS	Run ID: ORGCG8_060515B	Units: µg/g							Prep Date 5/15/06
Client ID:											SeqNo: 593066
Analyte		Result	Limit	SPK value	SPK Ref Val						
TPHC Gas (C6-C14)		10.48	1.0	10.0	0	105%	102	128	10.4	0.709%	15
Sample ID LCS-15740-G	Batch ID: 15740	Test ID: TPHC GS	Run ID: ORGCG8_060518A	Units: µg/g							Prep Date 5/18/06
Client ID:											SeqNo: 593746
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit
TPHC Gas (C6-C14)		10.70	1.0	10.0	0	107%	102	128	0		Qual
Sample ID LCSD-15740-G	Batch ID: 15740	Test ID: TPHC GS	Run ID: ORGCG8_060518A	Units: µg/g							Prep Date 5/18/06
Client ID:											SeqNo: 593747
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit
TPHC Gas (C6-C14)		10.97	1.0	10.0	0	110%	102	128	10.7	2.55%	15
Sample ID LCS-06288	Batch ID: R41263	Test ID: TPHCGW	Run ID: ORGCG8_060512A	Units: µg/L							Prep Date
Client ID:											SeqNo: 592216
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit
TPHC Gas (C6-C14)		461.4	50	500	0	92.3%	85	115	0		Qual
Sample ID LCSD-06288	Batch ID: R41263	Test ID: TPHCGW	Run ID: ORGCG8_060512A	Units: µg/L							Prep Date
Client ID:											SeqNo: 592228
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit
TPHC Gas (C6-C14)		438.7	50	500	0	87.7%	85	115	461	5.04%	15

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0605173
Project: 001133.207 GRANITE UKIAH

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID	Batch ID:	Test ID:	Test Code:	TPHDMS	Units:	µg/g		Analysis Date	5/16/06 8:06:17 PM	Prep Date	5/11/06	
Client ID:		Run ID:	ORG C7_060516B					SeqNo:	593403			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		8.834	1.0	10.0	0	88.3%	70	130	0	0	0	
TPHC Motor Oil		19.94	10	20.0	0	99.7%	70	130	0	0	0	
Sample ID	Batch ID:	Test ID:	Test Code:	TPHDMS	Units:	µg/g		Analysis Date	5/16/06 8:26:35 PM	Prep Date	5/11/06	
Client ID:		Run ID:	ORG C7_060516B					SeqNo:	593404			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		9.211	1.0	10.0	0	92.1%	70	130	8.83	4.18%	15	
TPHC Motor Oil		20.47	10	20.0	0	102%	70	130	19.9	2.62%	15	
Sample ID	Batch ID:	Test ID:	Test Code:	TPHDMS	Units:	µg/g		Analysis Date	5/20/06 12:30:18 PM	Prep Date	5/11/06	
Client ID:		Run ID:	ORG C7_060520A					SeqNo:	594230			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		9.650	1.0	10.0	0	96.5%	70	130	0	0	0	
TPHC Motor Oil		21.18	10	20.0	0	106%	70	130	0	0	0	
Sample ID	Batch ID:	Test ID:	Test Code:	TPHDMS	Units:	µg/g		Analysis Date	5/20/06 12:50:46 PM	Prep Date	5/11/06	
Client ID:		Run ID:	ORG C7_060520A					SeqNo:	594231			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		9.670	1.0	10.0	0	96.7%	70	130	9.65	0.205%	15	
TPHC Motor Oil		20.72	10	20.0	0	104%	70	130	21.2	2.17%	15	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Laboratory Control Spike

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0605173
Project: 001133.207 GRANITE UKLAH

Sample ID	Batch ID: 15675	Test ID: 15675	Test Code: TPHDMW	Units: µg/L	Analysis Date 5/11/06 4:54:46 PM			Prep Date 5/10/06			
Client ID:		Run ID:	ORG C7_060511A		SeqNo: 592317						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	463.3	50	500	0	92.7%	72	124				0
TPHC Motor Oil	976.3	170	1,000	0	97.6%	71	139				0

Sample ID	Batch ID: 15675	Test ID: 15675	Test Code: TPHDMW	Units: µg/L	Analysis Date 5/11/06 5:15:01 PM			Prep Date 5/10/06			
Client ID:		Run ID:	ORG C7_060511A		SeqNo: 592318						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	478.6	50	500	0	95.7%	72	124				15
TPHC Motor Oil	1,023	170	1,000	0	102%	71	139				15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

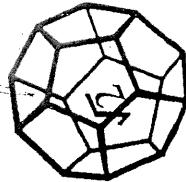
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**NORTH COAST
LABORATORIES LTD.**

West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody



West End Road : Alcalá : CA 93321-3202
707-822-4649 Fax 707-822-6831

Attention: <u>Boyd Rueter</u>	Results & Invoice to: <u>SHN</u>
Address: <u>812 West Wabash Avenue</u>	Copies of Report to: _____
Phone: <u>441-8855</u>	Sampler (Sign & Print): <u>Drew J.</u>
PROJECT INFORMATION	
Project Number: <u>001132-207</u>	Project Name: <u>Caromite 15KtAII</u>
Purchase Order Number:	

Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; DW=Drinking Water; S=Soil; O=Other; *MATRIX:

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

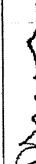
P. 2 of 34

A geometric diagram showing a truncated octahedron, which is a polyhedron composed of 14 faces: 8 regular hexagons and 6 regular octagons. A small circle labeled 'C' is positioned at the center of the hexagonal faces.

NORTH COAST
LABORATORIES LTD.

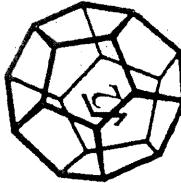
Wesl ERIU ROAU : Alcalá : CA 93321-3202

Chain of Custody

Attention: <u>Roland Rueben</u>	Results & Invoice to: <u>SHN</u>
Address: <u>812 West Wabash Avenue</u>	Copies of Report to: _____
Phone: <u>441-8855</u>	Sampler (Sign & Print): <u></u>
PROJECT INFORMATION	
Project Number: <u>001133.207</u>	Project Name: <u>Granite Walk</u>
Purchase Order Number:	

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

6680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

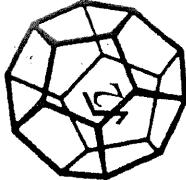
Chain of Custody

Attention: <u>Ronald Ruebeck</u>	Results & Invoice to: <u>SHN</u>
Address: <u>812 West Wabash Avenue</u>	Eureka, CA 95501
Phone: <u>441-8855</u>	Copies of Report to: _____
Sampler (Sign & Print): <u>D. Ruebeck</u>	
PROJECT INFORMATION	
Project Number: <u>001133</u>	2007
Project Name: <u>GEMALITE UKIAH</u>	
Purchase Order Number:	

LAB ID	SAMPLE ID	DATE	TIME	MATRIX
	B - 101	5-5-06	9:20	G W
	B - 102		9:50	
	B - 102		10:50	
	B - 104		11:35	
	B - 105		12:10	
	B - 106		12:45	
	B - 108		14:15	
	B - 109		14:45	

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

Attention: <u>Roland Rubin</u>	Results & Invoice to: <u>SHN</u>
Address: <u>812 West Wabash Avenue</u>	Copies of Report to: _____
Phone: <u>441-8855</u>	Sampler (Sign & Print): <u>Drummer</u>
PROJECT INFORMATION	
Project Number: <u>001133.207</u>	Project Name: <u>GRANITE UKIAH</u>
Purchase Order Number:	

* **MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.